



Energen Resources Corp.

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

Drilling Chronological Regulatory

Well Name: University 35-20 #2H					
Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District
Project AFE:	PBE091314	AFEs Associated:	/ / /		

Daily Summary

Activity Date :	10/21/2014	Days From Spud :	-2	Current Depth :	120 Ft	24 Hr. Footage Made :	120 Ft
Rig Company :	Nabors			Rig Name:	Nabors S888		
Formation :	Surface			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	24.00	01	MIRU ON UNIVERSITY 35-20 2H F/00:00 10-17-14 TO 06:00 10-21-14. FINISHED RIGGING UP DERRICK, HOOKED UP HYDRAULIC, DIESEL AND AIR LINES, RECEIVED FUEL @3AM, FINISHED SET IN AND LEVELING OF HORIZON BULK TANKS, RECEIVED TWO LOADS OF BULK GEL RECEIVED SPUD LOAD, CONDUCTED MAST INSPECTION, WELDER FIXED WELDS ON TOP DRIVE HARPOON RAISED DERRICK @12:00, SUB RAISED @13:30, SET DOG HOUSE STAIRCASE, SET FLOOR TO PITS STAIRS SET ANNULAR FOR SURFACE UNDER SUB ON BACKSIDE OF HOLE, MADE MODIFICATIONS TO SAND TRAP JET SYSTEM. RIG UP HALTED AT 14:45 DUE TO HEAVY RAIN AND LIGHTNING. WAITING FOR WEATHER TO PASS TO CONTINUE RU. CONTINUE RU @15:30, PU/HANG TOP DRIVE TRACK/TOP DRIVE, RU TOP DRIVE/ FLOOR. AT 02:30 BEGAN FABRICATION OF CONDUCTOR ASSY. TO 06:00	120	120	NIH

Total:	24.00	
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Daily Summary

Activity Date :	10/22/2014	Days From Spud :	-1	Current Depth :	120 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Nabors			Rig Name:	Nabors S888		
Formation :	Surface			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	24.00	MR	CONTACTED TRRC @08:10 SPUD NOTIFICATION, OPERATOR CINDY, JOB NUMBER 17749. CONTINUE RU FLOOR (C/O DIES IN TOP DRIVE, CHANGE OIL IN TOP DRIVE, RU TONGS, STRING OUT AND ANCHOR DERRICK CLIMBER ASSIST, WELD FLANGES ON CONDUCTOR RISERS (ONE 36" TO GET MUD CROSS ABOVE SUB BEAMS, THEN RISER ABOVE ANNULAR 96" TO ROTATING HEAD). RU LINES TO CATWALK, PLUMB IN STANDPIPE TO MUDLINE, CONDUCT 30 PAGE NABORS INSPECTION, RUN ALL ELECTRICAL LINES THROUGH ROAD MATS, RU AND RUN 4" F/ TRANSFER PUMP TO PITS, CUT OUT AND SADDLE BROKE NIPPLE IN FLOW LINE, FILL PITS WITH FRESH WATER, NU AND WELD ON CONDUCTOR ASSEMBLY, RU PANIC LINES, TIE IN JET LINE TO RESERVE, RACK/STRAP/CALIPER BHA, TIE IN ANACONDA LINE TO HCR, NU KILL VALVE. NU FLOW LINE, CNTR W/TURNBUCKLES/ BUILD SPUD MUD	120	120	NIH

Total:	24.00	
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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
120	10:00	8.40	8.40	28	4	2	2/4/0	100.0	0.0	0	0.00	40.0%	99.6%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	7.00	0.00	0.00	0.00	360	90	0	0.00	0.00	0	0	0.00		0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0	0.0	0.0	73												

Well Name: University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County, State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		10/23/2014		Days From Spud :		1		Current Depth :		419 Ft		24 Hr. Footage Made :		299 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Surface				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	9.00	MR	COMPLETE RU										120	120	NIH	
15:00	4.50	06	PU DIRECTIONAL BHA, SCRIBE AND TEST										120	120	1	
19:30	1.00	02	DRLF F/120'-163' WOB ALL, GPM 400, RPM 55, MTR RPM 64, TQ 3084, SPP 649										120	163	1	
20:30	1.00	21	PU T/120, CLEAR SHAKER CUTTING TROUGH, RE-RIG UP TRASH PUMP HOSE SUCTION AS TO HAVE PROPER FLOW TO KEEP TROUGH FREE OF CUTTING BUILD UP										120	120	1	
21:30	2.50	02	DRLG F/163'-266', WOB ALL, RPM 55, MTR RPM 64, GPM 400, SPP 881, DIFF 303, TQ 5823										163	266	1	
0:00	2.00	21	FLOW LINE FROM SHAKER TROUGH PACKED OFF, PU T/200', WORKED PIPE SLOWLY W/NO PUMP, NO ROTORY, REMOVED PVC FLOWLINE, CLEARED CUTTINGS, CLEARED TROUGH, RE-ASSYMBLED FLOWLINE, ADJUSTED PITCH FOR BETTER FLOW										266	266	1	
2:00	0.25	10	SURVEY @ 200', 0.2°, 173.1 AZ, 200' TVD										266	266	1	
2:15	2.25	02	DRLG F/266'-358', WOB ALL-30K, RPM 55' MTR RPM 64, GPM 400, SPP 800, DIFF 250, TQ 3808										266	358	1	
4:30	0.25	10	SURVEY @ 294' 0.1°, 149.9 AZ, 294' TVD										358	358	1	
4:45	1.25	02	DRLG F/358'-419 WOB ALL-30K, RPM 55, MTR RPM 64, GPM 400, SPP 804, DIFF 200, TQ 5790										358	419	1	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
120	14:00	8.50	8.50	33	2	4	3/4/0	45.0	0.0	0	0.00	1.0%	99.6%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	11.00	2.00	0.50	2.60	12000	90	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	0.0	73													

Well Name: University 35-20 #2H

Field Name :	PHANTOM (WOLFCAMP)	S/T/R :	//	County, State :	Winkler, TX
Operator :	ergen Resources Corporat	Location Desc :		District :	Resource District

Daily Summary

Activity Date :	10/24/2014	Days From Spud :	2	Current Depth :	1327 Ft	24 Hr. Footage Made :	908 Ft
Rig Company :	Nabors	Rig Name :	Nabors S888				
Formation :	Rustler	Weather :					

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	10.00	02	DRLD F/419-854. WOB 20-50 , RPM 55, GPM 596, MTR RPM 95, TQ 7500, PSI 1798	419	854	1
16:00	1.50	02	DRLD F/854-1032. WOB 20-50 , RPM 70, GPM 596, MTR RPM 95, TQ 7500, PSI 1798	854	1032	1
17:30	0.50	07	RIG SERVICE	1221	1221	1
18:00	3.00	02	DRLD F/1032-1221. WOB 20-50 , RPM 55, GPM 596, MTR RPM 95, TQ 7500, PSI 1798	1032	1221	1
21:00	1.00	21	PULL TRIP NIPPLE AND INSTALL ROTATING HEAD	1221	1221	1
22:00	1.00	03	DRLD F/1221'-1327'. WOB 20-50 , RPM 55, GPM 596, MTR RPM 95, TQ 6500, PSI 1798	1221	1327	1
23:00	1.50	20	HAVING ISSUES WITH MWD TOOL, CHANGE OUT TRANSDUCER	1327	1327	1
0:30	0.50	21	REMOVE ROT HEAD	1327	1327	1
1:00	5.00	06	POOH F/ 1327' T/ BHA DUE TO MWD ISSUES (NOT GETTING PULSES) DRILLING PAPER HUNG IN POP IT SHAFT	1327	1327	1

Total: 24.00

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
419	14:00	8.50	8.50	33	2	4	3/4/0	45.0	0.0	0	0.00	1.0%	99.6%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	11.00	2.00	0.50	2.60	12000	90	0	0.00	0.00	0	0	0.00		0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	0.0	73											
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
849	13:30	9.60	9.60	27	1	1	2/2/0	0.0	0.0	0	0.00	10.2%	89.8%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.60	0.10	0.10	0.20	1750000	2870	0	0.00	0.00	0	0	0.00		0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	0.0	85											

Well Name:University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		10/25/2014		Days From Spud :		3		Current Depth :		2838 Ft		24 Hr. Footage Made :		1511 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Rustler				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	3.50	06	TIH										1327	1327	1	
9:30	6.50	02	DRLD F/1327-1780 (453'). WOB 25, RPM 65, GPM 628, MTR RPM 100, PSI 1800, DIFF 400, ROP 77										1327	1780	1	
16:00	0.50	07	RIG SERVICE										1780	1780	1	
16:30	1.50	02	DRLD F/1780-1967 (187'). WOB 25, RPM 65, GPM 628, MTR RPM 100, PSI 1800, DIFF 400, ROP 125										1780	1967	1	
18:00	4.00	02	DRLD F/1967-2341' (374'). WOB 25, RPM 65, GPM 628, MTR RPM 100, PSI 1800, DIFF 400, ROP 94'HR										1967	2341	1	
22:00	0.50	20	SLIDE F/2341-2350' (9'). WOB 25, GPM 628, MTR RPM 100, PSI 1590, DIFF 60, ROP 18'HR										2341	2350	1	
22:30	1.00	02	DRLD F/2350-2434' (84'). WOB 25, RPM 65, GPM 628, MTR RPM 100, PSI 1850, DIFF 380, ROP 84'HR										2350	2434	1	
23:30	0.50	20	SLIDE F/2434-2452' (18'). WOB 24, GPM 628, MTR RPM 100, PSI 1590, DIFF 60, ROP 36'HR										2434	2452	1	
0:00	6.00	02	DRLD F/2452-2838' (386'). WOB 25, RPM 65, GPM 628, MTR RPM 100, PSI 1950, DIFF 360, ROP 64'HR										2452	2838	1	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
2153	14:00	9.70	9.70	28	1	1	2/2/0	45.0	0.0	0	0.00	0.9%	89.7%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	9.50	2.00	0.50	2.60	175000	90	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	9.7	90													

Well Name:University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		10/26/2014		Days From Spud :		4		Current Depth :		4054 Ft		24 Hr. Footage Made :		1216 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Salt & Anhydrite				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	4.50	02	DRLD F/2838-3182. WOB 20, RPM 78, GPM 628, PSI 2069, DIFF 406, MTR RPM 100, ROP 76										2838	3182	1	
10:30	1.00	20	S DRLD F/3182-3198 (TF / 270) WOB 15, GPM 629, PSI 1953, DIFF 288, MTR RPM 100, ROP 16										3182	3198	1	
11:30	1.00	02	DRLD F/3198-3275. WOB 20, RPM 78, GPM 628, PSI 2069, DIFF 406, MTR RPM 100, ROP 77										3198	3275	1	
12:30	0.50	07	RIG SERVICE										3275	3275	1	
13:00	0.50	10	SURVEY @3218 - 0.4° - 19.5 AZ										3275	3275	1	
13:30	0.50	02	DRLD F/3275-3287. WOB 20, RPM 78, GPM 628, PSI 2069, DIFF 406, MTR RPM 100, ROP 24										3275	3287	1	
14:00	1.50	05	CIRCULATE HOLE, POWER DOWN TO HOUSES, DD, RUNNING POWER LINES TO POWER UP THEIR COMPUTERS TO SEE DATA										3287	3287	1	
15:30	0.50	02	DRLD F/3287-3322. WOB 20, RPM 78, GPM 628, PSI 2069, DIFF 406, MTR RPM 100, ROP 70										3287	3322	1	
16:00	2.00	02	DRLD F/3322-3408'. WOB 20, RPM 78, GPM 628, PSI 2069, DIFF 406, MTR RPM 100, ROP 43'HR										3322	3408	1	
18:00	5.00	02	DRLD F/3408-3651'. WOB 20, RPM 82, GPM 628, PSI 2069, DIFF 380, MTR RPM 100, ROP 49'HR										3408	3651	1	
23:00	2.50	02	DRLD F/3651-3838'. WOB 20, RPM 82, GPM 628, PSI 2069, DIFF 380, MTR RPM 100, ROP 75' HR										3651	3838	1	
1:30	1.00	20	S DRLD F/3838-3855' (TF / 260) WOB 15, GPM 629, PSI 1965, DIFF 270, MTR RPM 100, ROP 17' HR										3838	3855	1	
2:30	3.50	02	DRLD F/3855-4054'. WOB 23, RPM 82, GPM 628, PSI 2069, DIFF 380, MTR RPM 100, ROP 57'HR										3855	4054	1	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
3651	22:00	10.00	9.90	28	1	1	2/2/0	45.0	0.0	0	0.00	0.9%	88.8%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	9.50	2.00	0.50	2.60	175000	90	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	9.7	90													

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Daily Summary

Activity Date :	10/27/2014	Days From Spud :	5	Current Depth :	4960 Ft	24 Hr. Footage Made :	906 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888	Formation :	Salt & Anhydrite	Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	10:00	02	DRLD F/4054-4540. WOB 25, RPM 78, GPM 629, PSI 2133, DIFF 353, ROP 48'HR	4054	4540	1
16:00	9:50	02	DRLD F/4540-4960'. WOB 25, RPM 80, GPM 629, PSI 2150, DIFF 350, ROP 44'HR	4540	4960	1
1:30	1:50	05	CIRC SWEEPS AROUND , AND PUMP FLUID CALIPER MATERIAL.	4960	4960	1
3:00	1:50	06	POOH F/ 4960' T/ 2450' TO RUN 2ND FLUID CALIPER LOG. FILLING EVERY 5 STANDS	4960	4960	1
4:30	1:00	05	PUMP 2ND FLUID CALIPER MATERIAL @ 2450'	4960	4960	1
5:30	0:50	06	CONTINUE POOH F/ 2450' T/ BHA FOR WIPER TRIP FILLING EVERY 5 STDS	4960	4960	1
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4709	21:00	10.00	9.90	28	1	1	2/2/0	0.0	0.0	0	0.00	11.2%	88.8%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl		Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss
0.0	9.30	2.00	0.50	2.60	179000		90	0	0.00	0.00	0	0	0.00		0
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	10.0	90											

Daily Summary

Activity Date :	10/28/2014	Days From Spud :	6	Current Depth :	4960 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888	Formation :	SALT BASE	Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0:50	06	SHORT TRIP TO DC'S	4960	4960	1
6:30	4:50	05	TIH, TAG BTM, CIRCULATE HOLE	4960	4960	1
11:00	0:50	07	SERVICE RIG, INVERTER OUT ON VFD HOUSE	4960	4960	1
11:30	2:50	05	CIRCULATE HOLE, SWEEP WITH 2 HIGH VIS PILLS, SLUG PIPE	4960	4960	1
14:00	2:00	06	TOH TO RUN CASING	4960	4960	1
16:00	1:00	06	FINISH TRIPPING OUT OF HOLE TO BHA	4960	4960	1
17:00	4:50	21	BREAK BIT , LAY OUT DIRECTIONAL TOOLS. & 8" DC.	4960	4960	1
21:30	1:50	12	RIG UP CHOCTAW CASING EQPT, AND HOLD SAFETY MEETING	4960	4960	1
23:00	7:00	12	RUN 9 5/8" CASING T/ 2450' , FILLING EVERY 30 JTS	4960	4960	1
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4960	14:00	10.00	9.90	28	1	1	2/2/0	45.0	0.0	0	0.00	11.2%	88.8%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl		Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss
0.0	9.50	0.10	0.10	0.20	179000		90	0	0.00	0.00	0	0	0.00		0
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	0.0	90											

Well Name: University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County, State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		10/29/2014		Days From Spud :		7		Current Depth :		4960 Ft		24 Hr. Footage Made :		0 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		SALT BASE				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	4.00	12	RAN 133 JTS OF 9 5/8" 40# N-80 BTC TO 4960, DV TOOL @2467 AND CEMENT BASKET @328										4960	4960	1	
10:00	2.00	05	CIRCULATE HOLE PRIOR TO RUNNING CEMENT										4960	4960	1	
12:00	3.00	12	CEMENT CASING WITH LEAD 650 SX CLASS C (230 BBLS) 1.9Y, 12.6#, 180 SX CLASS C (42 BBLS) 1.33Y, 14.88#, DISPLACED WITH 372 BBLS FRESH WATER, BUMPED PLUG 500# OVER CP OF 1545, FLOATS HELD, 2 BBLS BACK TO TANK. FULL RETURNS THROUGHOUT JOB.										4960	4960	1	
15:00	4.25	13	BROP DV BOMB, WAIT 15 MINUTES, PRESSURE UP 778# AND OPEN TOOL, CIRCULATE HOLE FOR 4 HRS FOR SECOND STAGE. CIRCULATED 40 BBLS (112 SACKS) OFF TOOL.										4960	4960	1	
19:15	2.25	12	CEMENT 2ND STAGE WITH LEAD 1303 SX CLASS C (461 BBLS) 12.6#, 1.99Y, TAIL 180 SX CLASS C (42 BBLS) 14.8# 1.33Y. DISPLACED WITH 187 BBLS FRESH WATER, BUMPED PLUG 500# OVER CP OF 1,040, FLOATS HELD, 2 BBLS BACK TO TANK. CIRCULATED 23 BBLS (64 SACKS)										4960	4960	1	
21:30	4.00	13	WOC 4 HRS AFTER SECOND STAGE PRIOR TO CUTTING OFF PER POCEDURE										4960	4960	1	
1:30	4.50	14	REMOVE MANUAL VALVES, FOUR BOLT ALL FLANGES, REMOVE FLOW LINE, CHOKE & HCR LINE, HYD LINES, INSTALL PICK UP LINES.										4960	4960	1	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
4960	14:00	10.00	9.90	28	1	1	2/2/0	45.0	0.0	0	0.00	11.2%	88.8%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	9.50	0.10	0.10	0.20	179000	90	0	0.00	0.00	0	0	0.00		0		
Water Loss		LCM	ECD	FL Temp	Remarks											
0		0.0	0.0	90												

Well Name:University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		10/30/2014		Days From Spud :		8		Current Depth :		4960 Ft		24 Hr. Footage Made :		0 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :						Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	3.00	14	RU PU LINES, PU AND CUT CASING, ND DIVERTER, ND, CHOKE LINES, ND ANNULAR, REMOVE MOUSE HOLE AND MASTER BUSHINGS, LD DIVERTER, LD, ANNULAR, LD MUD CROSS										4960	4960	1	
9:00	2.00	14	CUT CONDUCTOR, FINAL CUT CASING										4960	4960	1	
11:00	2.00	14	DRESS AND WELD ON WELL HEAD										4960	4960	1	
13:00	0.50	14	ALLOW WELL HEAD TO COOL PRIOR TO TEST										4960	4960	1	
13:30	0.50	14	TEST WELL HEAD TO 2200#										4960	4960	1	
14:00	4.00	14	C/O DSA F/13 5/8 10M X 13 5/8 5M TO 13 5/8 10M X 11 5M, NU BOP										4960	4960	1	
18:00	8.00	14	INSTALLED ROT HEAD ASSEMBLY, REMOVED SAME DUE TO SHORT BOLTS. CORRECTED PROBLEM AND TQ SAME. INSTALLED ORBIT VALVE AND FUNCTION TEST(OK), INSTALLED 2" LINE OFF BOP BLANK TO CHOKE. HOOKED UP ALL KOOMEY LINES AND FUNCTION TEST SAME(GOOD TEST).										4960	4960	1	
2:00	4.00	15	INSTALL TEST PLUG IN BOP, AND BEGIN TESTING RAMS (250PSI LOW & 5000 PSI HIGH) HYDRILL (250 LOW & 3500PSI HIGH) & LOWER KELLY VALVE TO 4" VALVES ON PUMPS (250 LOW AND 5000 HIGH)										4960	4960	1	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
4960	14:00	8.40	8.40	28	1	1	1/1/0	100.0	0.0	0	0.00	0.1%	99.0%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	8.00	0.00	0.00	0.00	800	1800	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	0.0	90													

Well Name:University 35-20 #2H																	
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX			
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District			
Daily Summary																	
Activity Date :		10/31/2014		Days From Spud :		9		Current Depth :		4960 Ft		24 Hr. Footage Made :		0 Ft			
Rig Company :		Nabors				Rig Name:		Nabors S888									
Formation :		SALT BASE				Weather:											
Operations																	
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run		
6:00	12.00	14	WAIT ON DELIVERY OF NEW VIBRATING HOSE'S,REPLACE SAME, INSTALL ORBIT VALVE, READJUST FLOW LINE, CENTER BOP & VENT LINE TO GAS BUSTER. INSTALL WEAR BUSHING										4960	4960	NIH		
18:00	0.50	21	ADJUST TOP DRIVE OVER CENTER OF ROTARY										4960	4960	2		
18:30	3.50	20	PICK UP 6.5", 7/8 1.5 DEG FIXED MOTOR W/ STAB, MAKE UP DIRECTIONAL TOOLS, TQ SAME , SCRIB, AND PERFORM SURFACE TEST ON MWD(GOOD) MAKE UP8 3/4" BIT (VAREL RS719 WITH 7- 16'S)										4960	4960	2		
22:00	4.50	06	TIH TO DV TOOL @ 2460'										4960	4960	2		
2:30	0.50	TC	PEFORM CASING TEST TO 1500 PSI @ TOP OF DV TOOL (2467'), HOLD FOR 30 MIN (GOOD TEST)										4960	4960	2		
3:00	1.00	02	DRILL DV TOOL WITH 25-ROT , 578-PSI, 3050 -TQ , 65-STKS. TEST TO 1500PSI AFTER DRILLING DV TOOL & HOLD FOR 30 MIN										4960	4960	2		
4:00	1.00	TC	TEST CASING TO 1500PSI AFTER DRILLING DV TOOL & HOLD FOR 30 MIN										4960	4960	2		
5:00	1.00	06	FINISH TIH F/ 2482' T/ 4919' FILLING EVERY 25 STDS										4960	4960	2		
Total:	24.00																
Mud Properties																	
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand		
4960	14:00	8.40	8.40	28	1	1	1/1/0	100.0	0.0	0	0.00	0.1%	99.0%	0.0%	0.0%		
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss			
0.0	8.00	0.00	0.00	0.00	800	1800	0	0.00	0.00	0	0	0.00		0			
Water Loss	LCM	ECD	FL Temp	Remarks													
0	0.0	0.0	90														
Daily Summary																	
Activity Date :		11/1/2014		Days From Spud :		10		Current Depth :		6501 Ft		24 Hr. Footage Made :		1541 Ft			
Rig Company :		Nabors				Rig Name:		Nabors S888									
Formation :		Cherry Canyon				Weather:											
Operations																	
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run		
6:00	0.50	TC	RETEST CSG T/ 1500 PSI FOR 30 MIN, DUE TO VALVE LEAKING ON CHOKE. HAD TO CLOSE INSIDE VALVE AND WAS ABLE TO GET A GOOD TEST. TEST BELOW DV TOOL (GOOD)										4960	4960	2		
6:30	3.00	06	TIH / INSTALL ROTATING HEAD										4960	4960	2		
9:30	1.50	32	DRLG CEMENT AND FLOAT EQPT, TAG CEMENT @ 4861', FLOAT COLLAR @4921' , TAG SHOE @ 4960'										4960	4960	2		
11:00	0.50	02	DRLG FORMATION F/ 4960' T/ 4971' @ REDUCED RATE 10K WOB , RPM 35 , GPM 400										4960	4971	2		
11:30	1.00	23	PERFORM FIT @ 4971' TO 579 PSI, TEST HELD AN EMW OF 10.6 PPG										4971	4971	2		
12:30	3.50	02	DRLD F/4971-5134'(163") ROP 47"HR. WOB 15, RPM 80, GPM 492, PSI 1350, DIFF 150										4971	5134	2		
16:00	8.00	02	DRLD F/5134-5819'(685") ROP 86"HR. WOB 15, RPM 50, GPM 544, PSI 1800, DIFF 340 , TQ 5200 , MTR RPM 152										5134	5819	2		
0:00	6.00	02	DRLD F/5819-6501'(682") ROP 114"HR. WOB 15, RPM 50, GPM 544, PSI 1800, DIFF 340 , TQ 6800 , MTR RPM 152										5819	6501	2		
Total:	24.00																
Mud Properties																	
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand		
4960	14:00	8.40	8.40	28			//		0.0	0	0.00	1.0%	99.0%	0.0%	0.0%		
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss			
0.0	8.00	0.00	0.00	0.00		1200	0	0.00	0.00	0	0	0.00		0			
Water Loss	LCM	ECD	FL Temp	Remarks													
0	0.0	0.0	90														

Well Name:University 35-20 #2H															
Field Name:	PHANTOM (WOLFCAMP)				S/T/R:	//				County,State:	Winkler, TX				
Operator:	ergen Resources Corporat				Location Desc:					District:	Resource District				
Daily Summary															
Activity Date :	11/2/2014		Days From Spud :	11		Current Depth :	7757 Ft		24 Hr. Footage Made :	1270 Ft					
Rig Company :	Nabors					Rig Name:	Nabors S888								
Formation :	Brushy Canyon					Weather:									
Operations															
Start	Hrs	Code	Remarks								Start Depth	End Depth	Run		
6:00	1.00	02	DRLD F/6501-6533'(32') ROP 32'HR. WOB 18, RPM 50, GPM 544, PSI 1750, DIFF 240 , TQ 6800 , MTR RPM 152								6501	6533	2		
7:00	0.50	20	SLD F/6533-6545'(12') ROP 24'HR. WOB 18, GPM 544, PSI 1550, DIFF 60 , TQ 3000 , MTR RPM 155								6533	6545	2		
7:30	1.00	02	DRLD F/6545-6626'(81') ROP 81'HR. WOB 17, RPM 50, GPM 544, PSI 1850, DIFF300 , TQ 6700 , MTR RPM 152								6545	6626	2		
8:30	0.50	20	SLD F/6626-6645'(19') ROP 38'HR. WOB 18, GPM 544, PSI 1660, DIFF 100 , TQ 3100 , MTR RPM 155								6626	6645	2		
9:00	2.50	02	DRLD F/6645-6812'(167') ROP 67'HR. WOB 17, RPM 50, GPM 544, PSI 1850, DIFF300 , TQ 6700 , MTR RPM 152								6645	6812	2		
11:30	1.00	20	SLD F/6812-6826'(14') ROP 14'HR. WOB 18,GPM 544, PSI 1680, DIFF 88 , TQ 300 , MTR RPM 155								6812	6826	2		
12:30	3.50	02	DRLD F/6826-6979'(153') ROP 44'HR. WOB 18, RPM 70/50, GPM 544, PSI 1900, DIFF220 , TQ 6700 , MTR RPM 152								6826	6979	2		
16:00	6.00	02	DRLD F/6979-7374'(395') ROP 66'HR. WOB 18, RPM 70/50, GPM 544, PSI 1940, DIFF2300 , TQ 7500 , MTR RPM 152								6979	7374	2		
22:00	0.50	20	SLD F/7374-7380'(6') ROP 12'HR. WOB 14, GPM 544, PSI 1680, DIFF 75 , TQ 2950 , MTR RPM 155								7374	7380	2		
22:30	5.00	02	DRLD F/7380-7654'(274') ROP 55'HR. WOB 18, RPM 60, GPM 544, PSI 2020, DIFF290 , TQ 6200 , MTR RPM 152								7380	7654	2		
3:30	1.00	20	SLD F/7654-7668'(14') ROP 14'HR. WOB 14, GPM 544, PSI 2010, DIFF 160 , TQ 600 , MTR RPM 155								7654	7668	2		
4:30	1.50	02	DRLD F/7654-7757'(103') ROP 69'HR. WOB 17, RPM 60, GPM 544, PSI 2066, DIFF260 , TQ 9500 , MTR RPM 152								7654	7757	2		
Total:	24.00														
Mud Properties															
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
6530	14:00	8.40	9.20	28			//		0.0	0	0.00	1.0%	99.2%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.00	0.00	0.00	0.00		1240	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	62												

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Daily Summary

Activity Date :	11/3/2014	Days From Spud :	12	Current Depth :	7785 Ft	24 Hr. Footage Made :	28 Ft
Rig Company :	Nabors			Rig Name:	Nabors S888		
Formation :	Brushy Canyon			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	02	DRLD F/7757-7778'(32") ROP 42'HR. WOB 22, RPM 60, GPM 541, PSI 2075, DIFF 265 , TQ 8000 , MTR RPM 152	7757	7778	2
6:30	2.00	02	SLD F/7778-7785'(12") ROP 4'HR. WOB 18, GPM 541, PSI 1825, DIFF 85 , MTR RPM 155	7778	7785	2
8:30	1.50	05	CIRC AND CONDITION PUMP SWEEP AND CIRC OUT / SLUG DRILL PIPE	7785	7785	2
10:00	4.00	06	TOH FOR BIT AND MTR CHANGE DUE TO FORMATION CHANGE 5%CHRT	7785	7785	2
14:00	2.50	06	LAY DOWN MTR AND BREAK BIT	7785	7785	2
16:30	3.00	06	MAKE UP NEW MTR 7/8 , 3.3 , 1.5 FIX REV .16 CHANGE OUT MWD AND SURFACE TEST , MAKE UP BIT VERAL HE39MRS 3X18 JETS	7785	7785	2
19:30	8.50	21	ATTEMPT TO GO IN HOLE WITH BIT, UNBALE TO GET PAST 50' TAKING WEIGHT, HANGING UP. STAND BACK BHA, ATTEMPT TO PULL WEAR BUSHING, UNABLE TO RETRIEVE KEPT SLIPPING OFF. LAYDOWN STABILIZER AND ATTEMPT TO GO IN HOLE AGAIN, UNBALE. RACK BHA BACK AGAIN, PICK UP ONE STAND OF 6.5" DC'S AND ADD STABILIZER 30' UP. REAM INSIDE OF CASING IN ATTEMPT TO REMOVE ANY SCARING OR LEDGES. POOH L/DOWN STABILIZER RACK DC'S IN DERRICK P/U BHA RUN IN HOLE (SUCCESSFUL).	7785	7785	2
4:00	2.00	20	PICK UP STABILIZER, SCRIB, CHECK UBHO SLEEVE ALIGMENT, REMOVE BIT, INSTALL MWD TOOL & TEST. MAKE UP BIT AND BEGIN TIH FILLING EVERY 30 STANDS	7785	7785	2

Total:	24.00	
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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
7757	14:00	8.40	9.20	28			//		0.0	0	0.00	1.0%	99.2%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.00	0.00	0.00	0.00		1240	0	0.00	0.00	0	0	0.00		0	
Water Loss		LCM	ECD	FL Temp			Remarks								
0		0.0	0.0	62											

Daily Summary

Activity Date :	11/4/2014	Days From Spud :	13	Current Depth :	7990 Ft	24 Hr. Footage Made :	205 Ft
Rig Company :	Nabors			Rig Name:	Nabors S888		
Formation :	Brushy Canyon			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.50	06	TIH WITH BHA #3, FILLING EVERY 30 STD	7785	7785	3
10:30	5.50	21	LEVEL DERRICK AND ADD SHIMS, LOWER BACK A- LEGS / RESET TURNBUCKLES FOR TOP DRIVE TRACK, AND RECENTER BOP..	7785	7785	3
16:00	0.50	21	INSTALL ROTATING HEAD	7785	7785	3
16:30	4.00	06	TRIP IN HOLE T/ 7585'	7785	7785	3
20:30	1.00	03	REAM F/ 7585' T/ 7785' 2-5K WOB , 30-ROT , 461 GPM , TQ 122-1500	7785	7785	3
21:30	1.00	02	DRLD F/7785-7813'(28") ROP 28'HR. WOB 40, RPM 50, GPM 541, PSI 1560, DIFF 100 , TQ 5650 , MTR RPM 76	7785	7813	3
22:30	1.00	20	SLD F/7813-7823'(10") ROP 10'HR. WOB 18, GPM 541, PSI 1530, DIFF 50 , MTR RPM 65	7813	7823	3
23:30	6.50	02	DRLD F/7823-7970'(147") ROP 23'HR. WOB 40, RPM 45, GPM 541, PSI 1580, DIFF 100 , TQ 5200 , MTR RPM 76	7823	7990	3

Total:	24.00	
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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
7785	14:00	8.40	9.30	28			//		0.0	0	0.00	1.0%	98.2%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.00	0.00	0.00	0.00		1210	0	0.00	0.00	0	0	0.00		0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	0.0	62											

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Daily Summary

Activity Date :	11/5/2014	Days From Spud :	14	Current Depth :	8454 Ft	24 Hr. Footage Made :	464 Ft
Rig Company :	Nabors			Rig Name:	Nabors S888		
Formation :	Brushy Canyon			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	02	DRLD F/7990-8060'(70') ROP 18'HR. WOB 40, RPM 45, GPM 541, PSI 1600, DIFF 65 , TQ 5300 , MTR RPM 76	7990	8060	3
10:00	4.00	02	DRLD F/8060-8146'(86') ROP 22'HR. WOB 40, RPM 45, GPM 541, PSI 1600, DIFF 65 , TQ 5320 , MTR RPM 76	8060	8146	3
14:00	2.00	02	DRLD F/8146-8195'(49') ROP 25'HR. WOB 40, RPM 45, GPM 541, PSI 1600, DIFF 65 , TQ 5320 , MTR RPM 76	8146	8195	3
16:00	7.00	02	DRLD F/8195-8335'(140') ROP 20'HR. WOB 40, RPM 50, GPM 541, PSI 1610, DIFF 35 , TQ 6320 , MTR RPM 76	8195	8335	3
23:00	0.50	21	LOST ALL DIFF, AND 60 PSI. PICKED UP OFF BOTTOM, PUT #2 PUMP ON HOLE TO ESTABLISH PROBLEM, #2 PUMPS POP OFF LEAKING. GO BACK TO NORMAL OPERATIONS	8335	8335	3
23:30	2.50	02	DRLD F/8335-8376'(41') ROP 16'HR. WOB 40, RPM 50, GPM 541, PSI 1610, DIFF 90 , TQ 6520 , MTR RPM 76	8335	8376	3
2:00	1.00	20	SLD F/8376-8384'(8') ROP 8'HR. WOB 30, GPM 541, PSI 1530, DIFF 30 , MTR RPM 65 , MTF 250	8376	8384	3
3:00	3.00	02	DRLD F/8384-8454'(70') ROP 23'HR. WOB 40, RPM 50, GPM 541, PSI 1650, DIFF 85 , TQ 6520 , MTR RPM 76	8384	8454	3
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
8290	19:00	9.40	9.30	27			//		0.0	0	0.00	2.0%	96.2%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl		Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss
0.0	9.00	0.00	0.00	0.00			1310	0	0.00	0.00	0	0	0.00		0
Water Loss		LCM	ECD	FL Temp		Remarks									
0		0.0	0.0	65											

Daily Summary

Activity Date :	11/6/2014	Days From Spud :	15	Current Depth :	8667 Ft	24 Hr. Footage Made :	213 Ft
Rig Company :	Nabors			Rig Name:	Nabors S888		
Formation :	Bone Springs			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	7.00	05	TOH FOR BIT CHANGE / BREAK BIT / STAND BACK DIRECTIONAL ASSEMBLY	8454	8454	3
13:00	1.00	06	PULL OLD WEAR BUSHING AND INSTALL NEW WEAR BUSHING	8454	8454	3
14:00	2.00	20	CHANGE OUT MWD DUE TO WEAK SPRING AND SURFACE TEST, MAKE UP 8 3/4" VAREL RS716DX	8454	8454	3
16:00	7.50	06	TIH WITH 8 3/4 VAREL RS716DX WITH 7- 16'S T/ 8376' FILLING EVERY 30 STANDS	8454	8454	4
23:30	0.50	03	REAM F/ 8376' T/ 8454' , ROT 45 , SPM 110, GPM 461 , TQ 7500, WOB 7-8K	8454	8454	4
0:00	1.00	05	CIRCULATE BOTTOMS UP THROUGH CHOKE	8454	8454	4
1:00	5.00	02	DRLD F/8454 T/ 8667'(213') ROP 43'HR. WOB 27, RPM 45, GPM 541, PSI 1650, DIFF 320 , TQ 9850 , MTR RPM 129	8454	8667	4
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
8454	19:00	9.30	9.30	28			//		0.0	0	0.00	2.0%	96.2%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.50	0.00	0.00	0.00	138000	1310	0	0.00	0.00	0	0	0.00		0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	0.0	65											

Well Name:University 35-20 #2H																	
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX			
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District			
Daily Summary																	
Activity Date :		11/7/2014		Days From Spud :		16		Current Depth :		9137 Ft		24 Hr. Footage Made :		470 Ft			
Rig Company :		Nabors				Rig Name:		Nabors S888									
Formation :		Bone Spring				Weather:											
Operations																	
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run		
6:00	8.00	02	DRLG ROT F/8667'-9100' (413') ROP 54, WOB 30, GPM 439, RPM 45, MTR RPM 61, DIFF 300, SPP 1550, TQ 9800										8667	9100	4		
14:00	0.50	07	SERVICE RIG										9100	9100	4		
14:30	2.50	02	DRLG ROT F/9100'-9137' (37') ROP 15, WOB 30, GPM 439, RPM 45, MTR RPM 61, DIFF 200, SPP 1350, TQ 6400										9100	9137	4		
17:00	2.50	05	CONDITION AND CIRCULATE SWEEP OUT OF HOLE, FILL TRIP TNK, FILL SLUG W/10lb BRINE 80bbls										9137	9137	4		
19:30	7.75	06	SPOT 80bbl 10lb BRINE, POOH FOR BIT & MUD MOTOR										9137	9137	4		
3:15	2.25	20	DRAIN MOTOR, BREAK BIT, MWD WORK, LD MUD MOTOR, PU NEW MOTOR, SCRIBE, MWD WORK, TEST, MU (HE47MS) BIT #5										9137	9137	4		
5:30	0.50	06	RIH W/ BIT #5, FILLING PIPE EVERY 30 STNDS										9137	9137	5		
Total:	24.00																
Mud Properties																	
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand		
9137	17:00	9.30	9.30	27	2	4	4/6/		0.0	0	0.00	8.1%	91.9%	0.0%	0.0%		
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss			
0.0	9.50	0.10	0.20	0.20	138000	1930	0	0.00	0.00	0	0	0.00		0			
Water Loss	LCM	ECD	FL Temp	Remarks													
0	0.0	0.0	75														

Well Name: University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County, State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		11/8/2014		Days From Spud :		17		Current Depth :		9416 Ft		24 Hr. Footage Made :		279 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Bone Springs				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	4.00	06	TIH WITH VAREL HE47MS TO 4916', FILL PIPE EVERY 30 STNDS										9137	9137	5	
10:00	2.00	09	INSTALL ROTATING HEAD / SLIP AND CUT DRILL LINE 70'										9137	9137	5	
12:00	1.00	05	RUN ONE STAND IN HOLE T/5010' AND CIRC BTM UP AT SHOE										9137	9137	5	
13:00	2.50	06	CONTINUE RIH T/8937, FILL PIPE EVERY 30 STNDS										9137	9137	5	
15:30	0.75	03	WASH & REAM F/8937'-9137'										9137	9137	5	
16:15	1.25	05	CIR BTMS UP / RECALIBRATE HOOKLOAD, STKS, & ROP										9137	9137	5	
17:30	0.50	07	RIG SERVICE										9137	9137	5	
18:00	3.00	02	DRLG ROT F/9137'-9217 (80') ROP 27, WOB 40, RPM 45, MTR RPM 64, GPM 458, SPP 1680, DIFF 70, TQ 5800										9137	9217	5	
21:00	0.25	10	GET SPR, SUR @ 9157' 0.6 INC, 49.2 AZ, 9156.38 TVD										9217	9217	5	
21:15	4.00	02	DRLG ROT F/9217-9311 (94') ROP 23.5, WOB 40, RPM 45, MTR RPM 64, GPM 458, SPP 1630, DIFF 60, TQ 6000										9217	9311	5	
1:15	0.25	10	SUR @ 9251' 0.7 INC, 47.5 AZ, 9250.37 TVD										9311	9311	5	
1:30	3.75	02	DRLG ROT F/9311-9404 (93') ROP 24.8, WOB 40, RPM 45, MTR RPM 64, GPM 458, SPP 1630, DIFF 60, TQ 6300										9311	9404	5	
5:15	0.25	10	SUR @ 9344' 0.7 INC, 64.9 AZ, 9343.36 TVD										9404	9404	5	
5:30	0.50	02	DRLG ROT F/9404-9416 (12') ROP 24, WOB 40, RPM 45, MTR RPM 64, GPM 458, SPP 1630, DIFF 60, TQ 6300										9404	9416	5	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
9145	15:00	9.30	9.30	28	2	4	3/5/		0.0	0	0.00	8.1%	91.9%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	9.50	0.10	0.20	0.20	137000	1930	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	0.0	70													

Well Name:University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		11/9/2014		Days From Spud :		18		Current Depth :		9683 Ft		24 Hr. Footage Made :		267 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Bone Spring				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	3.50	02	ROT F/9416-9497 (81') ROP 23, WOB 40, RPM 45, MTR RPM 64, SPP 1650, DIFF 70, TQ 6200										9416	9497	5	
9:30	0.25	10	SUR @ 9437' 1.2 INC, 68.8 AZ, 9436.35 TVD, 15.61 V-SEC										9497	9497	5	
9:45	1.25	02	ROT F/9497-9527 (30') ROP 24, WOB 40, RPM 45, MTR RPM 64, SPP 1650, DIFF 70, TQ 6200										9497	9527	5	
11:00	0.50	02	SLD DRLG F/9527-9530 (3') ROP 6, WOB 26, RPM 0, MTR RPM 64, SPP 1616, DIFF 50, TQ 0										9527	9530	5	
11:30	2.50	02	ROT DRLG F/9530-9590 (60') RPM 24, WOB 40, RPM 45, MTR RPM 64, GPM 458, SPP 1670, DIFF 90, TQ										9530	9590	5	
14:00	0.50	07	SERVICE RIG/ CROWN/ TOP DRIVE										9590	9590	5	
14:30	0.25	10	SUR @ 9530' 0.7 INC, 82.9 AZ, 9529.34 TVD, 15.63 V-SEC										9590	9590	5	
14:45	4.75	02	ROT DRLG F/9590-9683 (93') ROP 20, WOB 40, RPM 45, MTR RPM 64, GPM 458, SPP 1663, DIFF 72, TQ 5650 / PUMPED SWEEP 10' FROM KELLY DOWN										9590	9683	5	
19:30	0.25	10	SUR @ 9624' 1.1 INC, 61.2 AZ, 9623.33 TVD										9683	9683	5	
19:45	0.75	05	CIR SWEEP OUT OF HOLE, SPOT 100bbl 10lb BRINE ON BTM / FLOW CHECK										9683	9683	5	
20:30	5.75	06	POOH FOR PLANDED BHA & BIT CHANGE, KEEPING HOLE FULL W/ TRIP TANK, FORMATION SAMPLES AND OFF-SET WELL LOGS INDICATE WE ARE BELOW CHIRTY FORMATIONS, PLAN TO RIH W/ 0.28 RPG MTR, AND RS716DX PDC BIT TO CONTINUE VERTICAL SECTION TO KOP										9683	9683	5	
2:15	1.75	20	DRAIN MTR, BREAK BIT, PULL MWD TOOL, C/O MTR, SCRIBE, INSERT MWD, TEST, MU (RS716DX) PDC BIT #6										9683	9683	6	
4:00	2.00	06	RIH W/BHA & BIT #6 T/1083', FILLING PIPE EVERY 30 STNDS										9683	9683	6	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
9601	14:00	9.30	9.30	28	2	4	3/5/		0.0	0	0.00	8.2%	91.8%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	9.50	0.10	0.10	0.20	137000	1936	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	9.4	80													

Well Name:University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		11/10/2014		Days From Spud :		19		Current Depth :		10426 Ft		24 Hr. Footage Made :		743 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		2nd Bone Spring Carbonate				Weather:										
Operations																
Start	Hrs	Code	Remarks									Start Depth	End Depth	Run		
6:00	2.00	06	RIH F/1083'-5004', MONITORING DISPLACEMENT, FILL PIPE EVERY 30 STNDS									9683	9683	6		
8:00	0.50	06	CHANGE OUT ROT HEAD RUBBER, INSTALL ROT HEAD									9683	9683	6		
8:30	0.50	05	CIR BTM UP @ 5004', MAX GAS 190 UNITS (METHANE ETHATNE)									9683	9683	6		
9:00	2.50	06	RIH F/5004'-9399', MONITORING DIPLACEMENT, FILL PIPE EVERY 30 STNDS									9683	9683	6		
11:30	1.00	03	WASH, REAM F/9399'-9683'									9683	9683	6		
12:30	0.50	05	CIR BTM UP @ 9683', MAX GAS 3450 UNITS (METHANE ETHANE) / TAKE SURVEY @ 9624' 1.1 INC, 61.2 AZ, 9623.33 TVD, 15.55 V-SEC									9683	9683	6		
13:00	0.50	02	ROT DRLG F/9683'-9695' (12') ROP 24, WOB 20, RPM 45, MTR RPM 131, GPM 467, SPP 1650, DIFF 200, TQ 5600									9683	9695	6		
13:30	0.50	02	SLD DRLG F/9695'-9705' (10') ROP 20, WOB 20, MTR RPM 131, GPM 467, SPP 1737, DIFF 260, TQ 2450									9695	9705	6		
14:00	1.25	02	ROT DRLG F/9695'-9771' (76') ROP 61, WOB 20, RPM 60, MTR RPM 141, GPM 503, SPP 1930, DIFF 230, TQ 11000									9705	9771	6		
15:15	0.25	10	SUR @ 9717', 0.6 INC, 84.5 AZ, 9716.32 TVD, 15.46 V-SEC									9771	9771	6		
15:30	1.50	02	ROT DRLG F/9771'-9864' (93') ROP 62, WOB 15-20, RPM 50, MTR RPM 141, GPM 502, SPP 1930, DIFF 230, TQ 10000									9771	9864	6		
17:00	0.25	10	SUR @ 9810', 0.2 INC, 122.5 AZ, 9809.31 TVD, 15.68 V-SEC									9864	9864	6		
17:15	1.75	02	ROT DRLG F/9864'-9957' (93') ROP 53, WOB 15-20, RPM 50, MTR RPM 141, GPM 502, SPP 1970, DIFF 270, TQ 9800									9864	9957	6		
19:00	0.25	10	SUR @ 9903' 0.4 INC, 118 AZ, 9902.31 TVD									9957	9957	6		
19:15	0.25	02	ROT DRLG F/9957'-9972' (15') ROP 60, WOB 15-20, RPM 50, MTR RPM 141, GPM 502, SPP 1970, DIFF 270, TQ 9800									9957	9972	6		
19:30	1.00	02	SLD DRLG F/9972'-9987' (15') ROP 15, WOB 10, RPM 0, MTR RPM 141, GPM 502, SPP 1850, DIFF 200, TQ 0									9972	9987	6		
20:30	1.25	02	ROT DRLG F/9987'-10051' (64') ROP 51, WOB 15-20, RPM 50, MTR RPM 141, GPM 502, SPP 2000, DIFF 290, TQ 9100									9987	10051	6		
21:45	0.25	10	SUR @ 9997' 0.2 INC, 132.8 AZ, 9996.31 TVD									10051	10051	6		
22:00	2.00	02	ROT DRLG F/10051'-10144' (93') ROP 46.5, WOB 15-20, RPM 50, MTR RPM 141, GPM 502, SPP 2000, DIFF 290, TQ 9100									10051	10144	6		
0:00	0.25	10	SUR @ 10091', 0.2 INC, 174.5 AZ, 10090.31 TVD									10144	10144	6		
0:15	1.50	02	ROT DRLG F/10144'-10238' (94') ROP 63, WOB 15-20, RPM 50, MTR RPM 141, GPM 502, SPP 2000, DIFF 290, TQ 9100									10144	10238	6		
1:45	0.25	10	SUR @ 10184', 0.4, 85.6 AZ, 10183.31 TVD									10238	10238	6		
2:00	2.00	02	ROT DRLG F/10238'-10332' (94') ROP 47, WOB 15-20, RPM 50, MTR RPM 141, GPM 502, SPP 1983, DIFF 255, TQ 9500									10238	10332	6		
4:00	0.25	10	SUR @ 10278' .4 INC, 78.9 AZ, 10277.31 TVD									10332	10332	6		
4:15	1.75	02	ROT DRLG F/10332'-10426' (94') ROP 53, WOB 15-20, RPM 50, MTR RPM 141, GPM 502, SPP 1983, DIFF 255, TQ 9500									10332	10426	6		
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
10025	21:20	9.40	9.40	28	2	4	3/5/		0.0	0	0.00	8.2%	91.8%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	9.50	0.10	0.10	0.20	137000	1936	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	9.4	85	CURRENTLY BLENDING 10lb BRINE TO SYSTEM TO INCREASE MW T/9.4+												

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Daily Summary

Activity Date :	11/11/2014	Days From Spud :	20	Current Depth :	11144 Ft	24 Hr. Footage Made :	718 Ft
Rig Company :	Nabors			Rig Name:	Nabors S888		
Formation :	3rd Bone Spring Carbonate			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	5.00	02	DRLD F/10426-10648. WOB 18, RPM 48, PSI 2000, DIFF 263, GPM 504, MTR RPM 141, TQ 9500, ROP 44	10426	10648	6
11:00	1.00	20	SLIDE F/10648-10658. WOB 21, MTR RPM 140, GPM 502, PSI 1827, DIFF 82, TQ 21, ROP 10	10648	10658	6
12:00	0.50	21	REPLACE MWD CABLE, GOT CUT BY MAN BASKET	10658	10658	6
12:30	0.50	20	SLIDE F/10658-10665. WOB 21, MTR RPM 140, GPM 502, PSI 1827, DIFF 82, TQ 21, ROP 14	10658	10665	6
13:00	3.00	02	DRLD F/10665-10778. WOB 18, RPM 48, PSI 2000, DIFF 263, GPM 504, MTR RPM 141, TQ 9500, ROP 38	10665	10778	6
16:00	2.00	02	DRLD F/10778-10891. WOB 26, RPM 60, PSI 1880, DIFF 350, GPM 467, MTR RPM 130, TQ 11450, ROP 57	10778	10891	6
18:00	8.00	02	DRLD F/10891-11144. WOB 15-20, RPM 60, PSI 1800, DIFF 245, GPM 467, MTR RPM 130, TQ 11450, ROP 32 / TD KOP 11144' @ 02:00	10891	11144	6
2:00	4.00	05	CIR, SWEEPS OUT OF HOLE, STARCH UP SYSTEM FOR 15-20 WL / PREP HOLE FOR LOGGS	11144	11144	6
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
11050	23:00	9.50	9.50	28	2	4	4/6/	20.0	0.0	0	0.00	8.2%	91.8%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.50	0.10	0.10	0.20	137000	1936	0	0.00	0.00	0	0	0.00		0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	9.6	80											

Daily Summary

Activity Date :	11/12/2014	Days From Spud :	21	Current Depth :	11144 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Nabors			Rig Name:	Nabors S888		
Formation :	3rd Bone Spring Carbonate			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	07	SERVICE RIG, C/O ELEVATOR PISTON	11144	11144	6
7:00	0.50	05	CIRC AND COND MUD	11144	11144	6
7:30	2.00	06	SHORT TRIP 20 STANDS TO 9368	11144	11144	6
9:30	1.00	06	TIH F/ SHORT TRIP TO 11081	11144	11144	6
10:30	0.50	03	SAFETY REAM LAST 90' TO BOTTOM	11144	11144	6
11:00	2.00	05	CIRCULATE HOLE, BUILD WEIGHTED PILL TO SPOT ON BOTTOM, SPOT WITH 1500 STKS	11144	11144	6
13:00	1.00	06	PULL 20 STANDS, BUILD SLUG TO SLUG PIPE	11144	11144	6
14:00	7.00	06	CONTINUE TOH TO PU CURVE ASSEMBLY	11144	11144	6
21:00	3.75	20	DRAIN MTR, BREAK BIT, PULL MWD, LD MTR, PU 2.12 .58 RPG MTR, SCRIBE, INSTALL MWD, TEST, MU HE39MRS INSERT BIT, MU Acecglide TOOL & XO	11144	11144	6
0:45	4.75	06	RIH W/ BHA #7 T/ 5026', FILLING PIPE EVERY 20 STNDS	11144	11144	7
5:30	0.50	05	CIRCULATE BTM UP @ 5026'	11144	11144	7
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
11144	23:00	9.60	9.50	32	2	4	4/6/	6.0	0.0	0	0.00	8.4%	91.6%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.50	0.10	0.10	0.20	135000	1936	0	0.00	0.00	0	0	0.00		0	
Water Loss		LCM	ECD	FL Temp			Remarks								
0		0.0	9.6	80											

Well Name:University 35-20 #2H																
Field Name :		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator :		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		11/13/2014		Days From Spud :		22		Current Depth :		11381 Ft		24 Hr. Footage Made :		237 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		3rd Bone Spring Sand				Weather:										
Operations																
Start	Hrs	Code	Remarks									Start Depth	End Depth	Run		
6:00	1.00	05	CIRCULATE HOLE @SHOE									11144	11144	7		
7:00	1.50	06	TIH TO 7000'									11144	11144	7		
8:30	1.50	05	CIRCULATE HOLE, C/O JOYSTICK ON RIG FLOOR FOR DRAWWORKS									11144	11144	7		
10:00	1.00	06	TIH TO 8047									11144	11144	7		
11:00	0.50	05	CIRCULATE HOLE									11144	11144	7		
11:30	2.00	06	TIH T/11024'									11144	11144	7		
13:30	1.00	03	SAFETY REAM LAST 120' TO BOTTOM									11144	11144	7		
14:30	6.50	20	SLIDE F/11144-11219 / ROT T/11225. TF 180, PSI 2050, DIFF 150, WOB 37, MTR RPM 130, GPM 467, ROP 12									11144	11225	7		
21:00	1.25	02	SLIDE F/11225-11249 / ROT T/11256' TF 180, PSI 2030, DIFF 130, WOB 37, MTR RPM 130, GPM 467, ROP 25									11225	11256	7		
22:15	2.75	02	SLIDE F/11256'-11309' / ROT T/11320' TF 20L, PSI 2030, DIFF 130, WOB 37, MTR RPM 130, GPM 467, ROP 23									11256	11320	7		
1:00	3.00	02	SLIDE F/11320'-11340' / ROT T/11350 TF 20L, PSI 2130, DIFF 130, WOB 37, MTR RPM 130, GPM 467, ROP 10									11320	11350	7		
4:00	2.00	02	SLIDE F/11350'-11381 TF 20L, PSI 2130, DIFF 130, WOB 37, MTR RPM 130, GPM 467, ROP 15									11350	11381	7		
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
11144	13:00	9.60	9.60	32	2	4	2/4/	8.4	0.0	0	0.00	8.4%	91.6%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	9.50	0.10	0.10	0.20	13000	2000	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	9.7	66													

Well Name: University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County, State:		Winkler, TX		
Operator:		Ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		11/14/2014		Days From Spud :		23		Current Depth :		11715 Ft		24 Hr. Footage Made :		334 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Wolfcamp				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
	0.00												11631	11631	7	
6:00	2.50	20	SLIDE F/11381-11412. WOB 40, GPM 467, MTR RPM 130, DIFF 200, PSI 2050, ROP 12.4										11381	11412	7	
8:30	0.50	10	SURVEY @11350 - 17.2° - 186.3 AZ - 11345.87 TVD - 40.05 VS										11412	11412	7	
9:00	7.00	20	SLIDE F/11412-11524. WOB 30, GPM 440, MTR RPM 123, DIFF 80, PSI 1900, ROP 16										11412	11524	7	
16:00	2.00	20	SLIDE F/11524-11550. WOB 30, GPM 440, MTR RPM 123, DIFF 80, PSI 1900, ROP 16										11524	11550	7	
18:00	1.00	20	SLIDE F/11550-11566. WOB 30, GPM 440, MTR RPM 123, DIFF 80, PSI 1900, ROP 16										11550	11566	7	
19:00	0.50	07	SERVICE RIG										11566	11566	7	
19:30	2.50	02	SLIDE F/11566-11592 / ROT T/11599' WOB 30, GPM 423, MTR RPM 119, DIFF 200, PSI 1900, ROP 13										11566	11599	7	
22:00	2.00	02	SLIDE F/11599'-11621/ ROT T/11631 WOB 30, GPM 423, MTR RPM 119, DIFF 200, PSI 1900, ROP 16										11599	11631	7	
0:00	2.00	02	SLIDE F/11631-11661 WOB 40, GPM 423, MTR RPM 119, DIFF 200, PSI 1900, ROP 15										11631	11661	7	
2:00	0.50	05	SHUT IN & CIR THROUGH SEPERATOR, GAS UNITS UP TO 3330, BUBBLE DISIPATED QUICKLY										11661	11661	7	
2:30	3.50	02	SLIDE F/11661-11715 WOB 30, GPM 423, MTR RPM 119, DIFF 200, PSI 1900, ROP 15										11661	11715	7	
Total:	24.00															
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
11474	12:00	9.60	9.60	32	4	3	1/2/	8.4	0.0	0	0.00	8.4%	91.6%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	9.50	0.20	0.10	0.30	133000	1800	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	9.7	74													

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Daily Summary

Activity Date :	11/15/2014	Days From Spud :	24	Current Depth :	11800 Ft	24 Hr. Footage Made :	85 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888	Formation :	Wolfcamp	Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	6.00	02	(1.00) ROTATE F/11715-11724. WOB 40, RPM 41, PSI 1870, DIFF 82. GPM 423, MTR RPM 118, TQ 9600 - (5.00) SLIDE F/11724-11755. WOB 40, MTR RPM 126, GPM 450, PSI 1900, DIFF 80.	11715	11755	7
12:00	2.50	02	(0.50) ROTATE F/11755-11765. WOB 40, RPM 35, PSI 2159, DIFF 230. GPM 449, MTR RPM 126, TQ 9600 - (2.00) SLIDE F/11765-11800. WOB 40, MTR RPM 126, GPM 449, PSI 1900, DIFF 80. PTB 59.5° - 161 AZ	11755	11800	7
14:30	1.50	05	SWEEP HOLE WITH 40 BBLs 60+ VIS SWEEPS AND CIRCULATE OUT OF HOLE	11800	11800	7
16:00	3.00	06	SHORT TRIP 20 STANDS	11800	11800	7
19:00	2.50	05	FILL PIPE, CIR SWEEPS OOH, 190 UNITS BTM UP GAS, SPOT 80bbl 10lb, 40 VIS , 6 WL PILL W/1800stks	11800	11800	7
21:30	8.00	06	POOH 20 STNDS, PUMP SLUG, CONTINUE POOH FOR LOGS, FILLING HOLE W/TRIP TNK EVERY 5 STNDS	11800	11800	7
5:30	0.50	20	BREAK, LD ACCELGLIDE TOOL, PU, DRAIN MTR, BREAK BIT, PULL MWD TOOL, LD DIRECTIONAL	11800	11800	7
Total:		24.00				

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
11800	16:00	9.65	9.65	29	2	3	1/1/	8.4	0.0	0	0.00	8.4%	90.1%	1.5%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.50	0.20	0.10	0.20	130000	1800	0	0.00	0.00	0	0	0.00	2/98	0	
Water Loss		LCM	ECD	FL Temp			Remarks								
0		0.0	9.7	75											

Daily Summary

Activity Date :	11/16/2014	Days From Spud :	25	Current Depth :	11800 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888	Formation :	Wolfcamp	Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	06	FINISH LD DIRECTIONAL TOOLS	11800	11800	7
8:00	2.00	01	RU SCHLUMBERGER OHL	11800	11800	7
10:00	8.00	11	LOG HOLE, LOGGERS TD@11450 - ± 27°	11800	11800	7
18:00	1.25	11	RD LOGGERS	11800	11800	7
19:15	1.00	06	INSTALL TRIP NIPPLE, STRAP, MU BHA #8 W/ BIT # 7 (RE-RUN)	11800	11800	7
20:15	4.75	06	RIH T/4543' , FILLING PIPE EVERY 30 stnds / HOLE TAKING FLUID, KEEPING BACKSIDE FULL W/ TRIP TNK	11800	11800	8
1:00	1.00	05	FILL PIPE, ESTABLISH RETURNS, CIR BTM UP 2400stks, FLOWN CHECK, NO FLOW	11800	11800	8
2:00	2.75	06	INSTALL ROT HEAD, RIH T/8002' , FILLING PIPE EVER 30 stnds, KEEPING BACKSIDE FULL W/ TRIP TNK, HOLE TAKING FLUID	11800	11800	8
4:45	0.75	05	FILL PIPE, GET RETURNS, CIR BTM UP 4000stks, FLOW CHK, NO FLOW	11800	11800	8
5:30	0.50	06	RIH F/8002'-9000' , FILLING PIPE EVERY 30stnds, HOLE TAKING FLUID, KEEPING BACKSIDE FULL W/ TRIP TNK	11800	11800	8
Total:		24.00				

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
11800	11:00	9.65	9.65	29	1	4	1/2/	8.4	0.0	0	0.00	8.4%	90.1%	1.5%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.50	0.20	0.10	0.20	130000	1800	0	0.00	0.00	0	0	0.00	2/98	0	
Water Loss		LCM	ECD	FL Temp			Remarks								
0		0.0	9.7	65											

Well Name:University 35-20 #2H																	
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX			
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District			
Daily Summary																	
Activity Date :		11/17/2014		Days From Spud :		26		Current Depth :		11800 Ft		24 Hr. Footage Made :		0 Ft			
Rig Company :		Nabors				Rig Name:		Nabors S888									
Formation :		Wolfcamp				Weather:											
Operations																	
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run		
6:00	1.50	06	TIH TO 11088										11800	11800	8		
7:30	2.00	05	CIRCULATE BU										11800	11800	8		
9:30	1.00	06	FINISH TIH, SAFETY REAM LAST 150'										11800	11800	8		
10:30	4.00	05	SWEPT HOLE, CIRC BU, SPOT 10PPG 20#/BBLs LCM PILL ON BOTTOM										11800	11800	8		
14:30	4.00	25	LD DP T/7727'										11800	11800	8		
18:30	0.50	07	SERVICE RIG, DRAIN STND PIPE, KELLY HOSE										11800	11800	8		
19:00	6.50	25	LD DP, LD HWDP										11800	11800	8		
1:30	2.75	25	LD DRILL COLLARS										11800	11800	8		
4:15	1.50	25	LD DP (PUSH PIPE), BREAK BIT, BIT SUB, XO										11800	11800	8		
5:45	0.25	21	PULL WEAR BUSHING										11800	11800	8		
Total:		24.00															
Mud Properties																	
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand		
11800	11:00	9.65	9.65	34	4	5	1/3/	10.8	0.0	0	0.00	8.5%	90.0%	1.5%	0.0%		
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss			
0.0	9.00	0.20	0.10	0.20	128000	2000	0	0.00	0.00	0	0	0.00	2/98	0			
Water Loss	LCM	ECD	FL Temp	Remarks													
0	0.0	9.8	77														
Daily Summary																	
Activity Date :		11/18/2014		Days From Spud :		27		Current Depth :		11800 Ft		24 Hr. Footage Made :		0 Ft			
Rig Company :		Nabors				Rig Name:		Nabors S888									
Formation :		Wolfcamp				Weather:											
Operations																	
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run		
6:00	1.00	06	REMOVE WEAR BUSHING										11800	11800	8		
7:00	2.00	15	RU MONAHANS TESTERS AND TEST ANNULAR AND CHOKE TO 3500 HIGH 250 LOW										11800	11800	8		
9:00	0.50	21	DRY FIT CASING MANDREL										11800	11800	8		
9:30	0.50	12	PJSM WITH CASING CREW										11800	11800	8		
10:00	3.00	12	RU CASING CREW, HAD ISSUES WITH COMMUNICATION BETWEEN TORQUE TURN AND REMOTE, TROUBLESHOOT AND REPLACE CABLES										11800	11800	8		
13:00	9.00	12	RUN CASING, FILL UP EVERY 35 T/4950'										11800	11800	8		
22:00	1.25	12	C/O ELEVATORS TO BIGGER SET, (NOT LATCHING), ADD BALE EXTENTIONS, ADJUST NUBBIN PLATE ON ELEVATORS										11800	11800	8		
23:15	0.50	05	CIR BTM UP @ 4950', LATCHED UP AND OUT OF SLIPS										11800	11800	8		
23:45	5.00	12	RUN CASING, FILL UP EVERY 35 T/8114'										11800	11800	8		
4:45	0.75	05	FILL PIPE, CIR BTM UP WHILE RECIPRICATING PIPE										11800	11800	8		
5:30	0.50	12	RUN CASING T/8600'										11800	11800	8		
Total:		24.00															
Mud Properties																	
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand		
11800	12:00	9.65	9.65	31	2	3	1/2/	10.8	0.0	0	0.00	8.5%	90.0%	1.5%	0.0%		
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss			
0.0	9.00	0.20	0.10	0.20	128000	2000	0	0.00	0.00	0	0	0.00	2/98	0			
Water Loss	LCM	ECD	FL Temp	Remarks													
0	0.0	0.0	68														

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Daily Summary

Activity Date :	11/19/2014	Days From Spud :	28	Current Depth :	11800 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888	Formation :	Wolfcamp	Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	12	RUN CSG TO 11,300'	11800	11800	8
10:00	1.00	05	CIRCULATE BTM UP	11800	11800	8
11:00	1.50	12	RUN TOTAL 268 JNTS 7" 32# P110 PTC CSG T/11741	11800	11800	8
12:30	0.50	12	RIG DOWN CSG CREW / CIR, NO FLOW	11800	11800	8
13:00	2.00	12	RU CMTRS, TEST LINES, CSG SWEDGE LEAKING, REMOVE SWEDGE, CLEAN, RE-DOPE, MU SWEDGE, TEST LINES T/5000psi	11800	11800	8
15:00	4.00	12	PUMPED 20bbl 8.4# GEL/SPACER, 435bbl 1210sx 12.4# 2.02yld LEAD, 66bbl 300sx 15.6# 1.24yld TAIL, DISPLACED W/420bbl 9.7# SYSTEM FLUID, BUMPED PLUG 500psi OVER @1872psi, FLOAT HELD, GOT 2bbl BACK, BUMPED @ 18:40, NO RETURNS DURING CMT OPP.	11800	11800	8
19:00	0.50	12	RD CEMENTERS	11800	11800	8
19:30	8.00	21	LD LANDING JNT, (HANGER SETTING TOOL FLUTES PACKED W/LCM), OPEN 9 5/8 CSG VALVE, CLOSED BLINDS, PRESURED T/250psi, 3 FLUTES APPEARED CLEAR, ATTEMPT TO SET PACKER, WOULDN'T SEAT, MU 8 3/4 BIT(#7) ON JNT OF DP, 1' ABOVE HANGER, W/ PRESURE, WASHED ON TOP OF FLUTES, ATTEMPT TO SET PKR AGAIN, LACKS 1" FROM SEATING, SET BACK PKR ASSY, PREPARE TO ND A-SEC TO MANUALLY CLEAR HANGER FLUTES FOR PKR TO SEAT	11800	11800	8
3:30	2.25	28	REMOVE MOUSE HOLE , TURNBUCKLES, 4 BOLT A-SEC, STAB BOP WRANGLER T/BOP / HALT OPPS FOR TEMP SURVEY RUN	11800	11800	8
5:45	0.25	11	RU LONE STAR FOR RUNNING TEMP SURVEY	11800	11800	8
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
11800	12:00	9.65	9.65	31	2	3	1/2/	10.8	0.0	0	0.00	8.5%	90.0%	1.5%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.00	0.20	0.10	0.20	128000	2000	0	0.00	0.00	0	0	0.00	2/98	0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	0.0	68											

Daily Summary

Activity Date :	11/20/2014	Days From Spud :	29	Current Depth :	11800 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888	Formation :	Wolfcamp	Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	7.00	11	RU & RUN TEMP SURVEY T/11100' / NUMEROUS DEFLECTIONS IN TEMPS / DISPUTABLE CMT TOP	11800	11800	8
13:00	1.00	14	PU BOP, PRESSURE WASH LCM OFF TOP OF MANDREL	11800	11800	8
14:00	1.50	14	NU BOP	11800	11800	8
15:30	14.50	15	TEST BOP/CHOKE 250-3500-5000, TROUBLESHOOT VALVES, PU INSPECT TEST CUP, PRESURES HOLDING LOWER RAMS TESTED GOOD, UPPER RAMS, TROUBLESHOOT PRESURE LOSS, KILL VALVES, HCR, 4" MANUAL, PIPE RAMS	11800	11800	8
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
11800	12:00	9.65	9.65	31	2	3	1/2/	10.8	0.0	0	0.00	8.5%	90.0%	1.5%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.00	0.20	0.10	0.20	128000	2000	0	0.00	0.00	0	0	0.00	2/98	0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	0.0	68											

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Daily Summary

Activity Date :	11/21/2014	Days From Spud :	30	Current Depth :	11800 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888	Formation :	Wolfcamp	Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	15	TEST BOP - 250-3500-5000, KOOMEY LINES ON ANNULAR LEAKING AND PIPE RAM LINES AIRED UP, FUNCTION TESTED AND RAN KOOMEY TO INTRODUCE NEW WARM OIL, ALL TEST GOOD.	11800	11800	8
8:00	1.50	14	REPLACE ALL LINES REMOVED WHEN TROUBLESHOOTING BOP TEST	11800	11800	8
9:30	4.00	06	PU DIRECTIONAL, SCRIBE AND SURFACE TEST MOTOR, MULESHOE NOT ACCEPTING MWD PROPERLY, TROUBLESHOOTING, C/O MULESHOE AND O-RINGS ON MWD, TEST GOOD	11800	11800	9
13:30	15.50	06	MU BIT AND TIH TO 11547	11800	11800	9
5:00	1.00	32	TAG CMT @11547-11650	11800	11800	9
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
11800	12:35	9.65	9.65	30	2	3	1/2/	10.0	0.0	0	0.00	8.5%	90.0%	1.5%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.00	0.10	0.10	0.20	128000	2000	0	0.00	0.00	0	0	0.00	2/98	0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	0.0	65											

Daily Summary

Activity Date :	11/22/2014	Days From Spud :	31	Current Depth :	11900 Ft	24 Hr. Footage Made :	100 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888	Formation :	Wolfcamp	Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	TC	PRESSURE TEST CASING TO 3000 PSI FOR 30 MINUTES	11800	11800	9
7:00	2.00	32	DRLD CEMENT AND SHOE TRACK F/11629-11741, TIH TO BTM 11800	11800	11800	9
9:00	0.50	05	CIRCULATE BU @11799	11800	11800	9
9:30	1.00	05	DISPLACE HOLE WITH OBM	11800	11800	9
10:30	10.00	37	CLEAN MUD TANKS TO PREP FOR OBM	11800	11800	9
20:30	1.00	21	FILL MUD PITS WITH 11.0 PPG OIL BASE	11800	11800	9
21:30	3.50	20	SLIDE F/11800-11840 (40') WOB 29, GPM 251, MTR RPM 131, DIFF 100, PSI 3200, ROP 11'HR , TF HS	11800	11840	9
1:00	1.00	02	DRLG ROT F/11840-11853 (13') ROP 13, WOB 30, RPM 15, MTR RPM 131, GPM 251, SPP 3345, DIFF 120, TQ 4500	11840	11853	9
2:00	2.00	20	SLIDE F/11853-11876 (23') WOB 27, GPM 251, MTR RPM 131, DIFF 80, PSI 3200, ROP 12'HR , TF HS	11853	11876	9
4:00	0.50	02	DRLG ROT F/11876-11884 (8') ROP 16, WOB 27, RPM 15, MTR RPM 131, GPM 251, SPP 3345, DIFF 120, TQ 4500	11876	11884	9
4:30	1.50	20	SLIDE F/11884-11900 (16') WOB 40, GPM 251, MTR RPM 131, DIFF 100, PSI 3280, ROP 11'HR , TF HS	11884	11900	9
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
11800	18:45	11.00	11.00	53	2	15	1/2/	10.0	8.0	0	0.00	8.5%	90.0%	1.5%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.00	0.10	0.10	0.20	128000	2000	0	0.00	0.00	0	0	0.00	2/98	0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	0.0	65											

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Daily Summary

Activity Date :	11/23/2014	Days From Spud :	32	Current Depth :	12057 Ft	24 Hr. Footage Made :	157 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888				
Formation :	Wolfcamp	Weather:					

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	20	(1.0) SLIDE F/11900-11916. WOB 10, MTR RPM 133, GPM 256, PSI 3200, DIFF 60. (1.0) ROTATE F/11916-11926. WOB 28, RPM 45, MTR RPM 133, GPM 256, PSI 3150, DIFF 150.	11900	11926	9
8:00	3.00	20	(2.0) SLIDE F/11926-11948. WOB 10, MTR RPM 133, GPM 256, PSI 3200, DIFF 60. (1.0) ROTATE F/11948-11963. WOB 28, RPM 45, MTR RPM 133, GPM 256, PSI 3150, DIFF 150.	11926	11963	9
11:00	1.50	20	SLIDE F/11963-11979. WOB 10, MTR RPM 133, GPM 256, PSI 3200, DIFF 60.	11963	11979	9
12:30	0.50	07	SERVICE RIG	11979	11979	9
13:00	3.00	20	(1.0) ROTATE F/11979-11989. WOB 28, RPM 45, MTR RPM 133, GPM 256, PSI 3349, DIFF 108. (1.5) SLIDE F/11989-12015. WOB 40, MTR RPM 133, GPM 256, PSI 3236, DIFF 34.	11979	12015	9
16:00	2.00	20	(.5) ROTATE F/12015-12016. WOB 28, RPM 45, MTR RPM 133, GPM 256, PSI 3349, DIFF 108. (1.5) SLIDE F/12016-12030. WOB 40, MTR RPM 133, GPM 256, PSI 3236, DIFF 34.	12015	12030	9
18:00	3.00		(2.0) SLIDE F/12030-12043. WOB 40, MTR RPM 133, GPM 256, PSI 3236, DIFF 50. (1.0) ROTATE F/12043-12057. WOB 28, RPM 45, MTR RPM 133, GPM 256, PSI 3350, DIFF 110. BIT PROJECTED TO LAND W/ 90INC , 154.9 AZI , & 11777 TVD	12030	12057	9
21:00	2.00	05	CIRCULATE BOTTOMS UP, & RIG UP MUD BUCKET & SPOT 11.6PPG CONTROL PILL	12057	12057	9
23:00	7.00		TRIP OUT OF HOLE TO CHANGE MOTOR AND BIT FOR LATERAL ASSEMBLY	12057	12057	9
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
12057	9:00	11.00	11.00	52	14	10	12/16/21		8.0	0	0.00	15.0%	20.0%	65.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0					50000		740	4.00	5.20	78500	28	0.00	76/24	0	
Water Loss		LCM	ECD	FL Temp		Remarks									
0		0.0	0.0	85											

Daily Summary

Activity Date :	11/24/2014	Days From Spud :	33	Current Depth :	12100 Ft	24 Hr. Footage Made :	43 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888				
Formation :	Wolfcamp	Weather:					

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.50	06	TOH, PULL ROTATING HEAD, INSTALL TRIP NIPPLE, CONTIUNE TOH. BREAK BIT, LD BHA. BIT GRADED 8-8-BT-LT-A-8-2/16-TD.	12057	12057	9
9:30	5.50	21	WAIT ON CORRECT BEND MOTOR	12057	12057	9
15:00	3.00	06	PU MOTOR, SCRIBE, PU MWD, TEST MOTOR AND MWD, MU BIT AND TIH	12057	12057	10
18:00	8.00	06	TIH W/ 6" VM713 VAREL , 4 3/4" 1.75 DEG FIXED MTR , GHOST REAMER & XRV+ VIBRATION TOOL T/ 11850' FILLING EVERY 30 STDS	12057	12057	10
2:00	1.50	03	REAM F/ 11850' T/ 12057' W/ 2-8K WOB , 2800 TQ , 30 ROT, 230 GPM	12057	12057	10
3:30	1.50	02	ROTATE F/12057-12086. WOB 28, RPM 45, MTR RPM 107 , GPM 209, PSI 3600, DIFF 260.	12057	12086	10
5:00	1.00	20	SLIDE F/12086'-12100'. WOB 25, MTR RPM 106, GPM 209, PSI 3280, DIFF 60 , TF 20R	12086	12100	10
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
12057	9:00	11.00	11.00	52	14	10	12/16/21		8.0	0	0.00	15.0%	20.0%	65.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0					50000		740	4.00	5.20	78500	28	0.00	76/24	0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	11.4	80											

Well Name: University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County, State:		Winkler, TX		
Operator:		Ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		11/25/2014		Days From Spud :		34		Current Depth :		12161 Ft		24 Hr. Footage Made :		61 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Wolfcamp				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	9.50	20	SLIDE F/12100-12161. WOB 26, GPM 226, MTR RPM 115, PSI 3655, DIFF 133										12100	12161	10	
15:30	0.50	05	SPOT PILL, TOH FOR MOTOR/BIT										12161	12161	10	
16:00	7.00	06	PULL OUT OF HOLE F/ 12161' T/ BIT DUE TO MOTOR STALLING. HOLE TOOK CORRECT FILL										12161	12161	10	
23:00	3.00	20	BREAK BIT , REMOVE MWD TOOL, LAYDOWN MTR. PICK UP NEW MTR , SCRIB & INSTALL MWD AND SURFACE TEST										12161	12161	10	
2:00	4.00	06	MAKE UP 6" SMITH MDI611 W/ 3-13'S , PICK UP NEW GHOST REAMER AND TIH T/ 6600' , FILLING EVERY 30 STDS										12161	12161	11	
Total:	24.00															
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
12161	21:00	11.00	11.00	54	15	13	13/17/22		8.0	0	0.00	15.0%	20.0%	65.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0					60000		790	7.50	9.70	78500	33	0.00	76/24	0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	11.9	80													

Well Name:University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		11/26/2014		Days From Spud :		35		Current Depth :		12475 Ft		24 Hr. Footage Made :		314 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Wolfcamp				Weather:										
Operations																
Start	Hrs	Code	Remarks									Start Depth	End Depth	Run		
6:00	2.50	06	TIH TO 11900'									12161	12161	11		
8:30	1.00	03	REAM AND WASH F/ 11900'-12161'									12161	12161	11		
9:30	3.00	02	SLIDE F/12161'-12183'. WOB 8 TO 10, GPM 218, MTR RPM 115, PSI 3650, DIFF 80									12161	12183	11		
12:30	0.50	07	RIG SERVICE									12183	12183	11		
13:00	4.50	02	SLIDE F/12183'-12261'. WOB 8 TO 10, GPM 218, MTR RPM 115, PSI 3869, DIFF 192									12183	12261	11		
17:30	0.50	02	ROTATE F/12261-12278. WOB 15, RPM 45, MTR RPM 107 , GPM 201, PSI 3700, DIFF 260.									12261	12278	11		
18:00	1.50	20	SLIDE F/12278'-12309'. WOB 8 TO 10, GPM 214, MTR RPM 111, PSI 3925, DIFF 185									12278	12309	11		
19:30	1.50	02	ROTATE F/12309-12374. WOB 15, RPM 45, MTR RPM 107 , GPM 209, PSI 3920, DIFF 275.									12309	12374	11		
21:00	2.50	03	REAM OUT OF HOLE FROM 12374' T/ 12015'. (LETTING SHARP CUTTERS CLEAN UP CURVE) REAM BACK IN HOLE F/ 12015' T/ 12374' W/ 45 ROT, GPM 209 , TQ 745-2300 , SPP 3800									12374	12374	11		
23:30	1.00	20	SLIDE F/12374'-12386'. WOB 8 TO 10, GPM 209, MTR RPM 109, PSI 3925, DIFF 100 , TF 110R									12374	12386	11		
0:30	0.50	02	ROTATE F/12386-12405. WOB 15, RPM 45, MTR RPM 107 , GPM 209, PSI 3980, DIFF 125 , TQ 4276									12386	12405	11		
1:00	1.50	20	SLIDE F/12405'-12425'. WOB 6 TO 10, GPM 209, MTR RPM 109, PSI 3825, DIFF 130 , TF 110R									12405	12425	11		
2:30	0.50	02	ROTATE F/12425-12436. WOB 15, RPM 45, MTR RPM 107 , GPM 209, PSI 3880, DIFF 165 , TQ 3950									12425	12436	11		
3:00	1.50	20	SLIDE F/12436'-12451'. WOB 18-20, GPM 209, MTR RPM 109, PSI 3950, DIFF 300 , TF 110R									12436	12451	11		
4:30	1.50	02	ROTATE F/12451-12475. WOB 15, RPM 45, MTR RPM 107 , GPM 209, PSI 3880, DIFF 200 , TQ 4250									12451	12475	11		
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
12363	22:00	11.70	11.70	58	14	12	13/15/19		8.0	0	0.00	18.0%	17.0%	65.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0					575000		790	7.00	9.10	78500	32	0.00	79/21	0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	12.6	90													

Well Name:University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		11/27/2014		Days From Spud :		36		Current Depth :		13120 Ft		24 Hr. Footage Made :		645 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Wolfcamp				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	2.50	02	SLIDE F/12475'-12500'. WOB 8 TO 10, GPM 218, MTR RPM 113, PSI 3800, DIFF 80 ROP 30										12475	12500	11	
8:30	0.50	02	ROT F/ 12500'-12505' WOB 15 / GPM 218 / MTR RPM 113 / PSI 3850 / DIFF 130 / ROP 10										12500	12505	11	
9:00	2.00	02	SLIDE F/12505'-12531'. WOB 8 TO 10, GPM 218, MTR RPM 113, PSI 3875, DIFF 150 ROP 13										12505	12531	11	
11:00	0.50	10	SUR @ 12466' / 90.2 INC / 156.6 AZM / 11782' TVD / VS 948.08 / 72' L / 1.4 BELOW										12531	12531	11	
11:30	1.00	02	SLIDE F/12531'-12563'. WOB 8 TO 10, GPM 218, MTR RPM 113, PSI 3875, DIFF 150 ROP 32										12531	12563	11	
12:30	0.50	10	SUR @ 12498' / 89.1 INC / 157.8 AZM / 11782.93' TVD / VS 979.91 / 73' L / 2.4 BELOW										12563	12563	11	
13:00	2.50	02	SLIDE F/12563'-12606'. WOB 8 TO 10, GPM 218, MTR RPM 113, PSI 3875, DIFF 150 ROP 17										12563	12606	11	
15:30	0.50	10	SUR @ 12530' / 90.1 INC / 160.0 AZM / 11783.15' TVD / VS 1011.82 / 72' L / 2 BELOW										12606	12606	11	
16:00	0.50	02	ROT F/ 12606'-12627' WOB 16 / GPM 217 / MTR RPM 113 / PSI 3900 / DIFF 130 / ROP 42'hr										12606	12627	11	
16:30	0.50	10	SUR @ 12562' / 90.7 INC / 162.2 AZM / 1178.9' TVD / VS 10XXX / XX' L / R , XXX BELOW										12627	12627	11	
17:00	1.00	20	SLIDE F/12627'-12650'. WOB 8 TO 10, GPM 218, MTR RPM 113, PSI 3975, DIFF 140 ROP 23'HR										12627	12650	11	
18:00	2.00	20	ROT F/ 12650'-12723' WOB 10K / GPM 217 / MTR RPM 113 / PSI 3750 / DIFF 200 / ROP 37'hr / P/U- 205 / S/O-185 / R/W- 195 / OFF BTM PSI 3750 / ON BTM PSI 3950										12650	12723	11	
20:00	0.50	20	SLIDE F/12723'-12738'. WOB 8, GPM 218, MTR RPM 113, PSI 3875, DIFF 110 ROP 30'HR , TF 160R										12723	12738	11	
20:30	1.00	02	ROT F/ 12738'-12754' WOB 10K / GPM 217 / MTR RPM 113 / PSI 3750 / DIFF 200 / ROP 16'hr / OFF BTM PSI 3750 / ON BTM PSI 3950 SURVEY 12689' , 93.1 , 166.6 , TVD 11777										12738	12754	11	
21:30	0.50	20	SLIDE F/12754'-12764'. WOB 8, GPM 218, MTR RPM 113, PSI 3875, DIFF 100 ROP 20'HR , TF 180R										12754	12764	11	
22:00	8.00	02	ROT F/ 12764'-13120' WOB 10K / GPM 217 / MTR RPM 113 / PSI 4000 / DIFF 290 / ROP 45'hr / OFF BTM PSI 3750										12764	13120	11	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
12850	0:00	11.80	11.80	60	13	12	13/16/18		8.0	0	0.00	18.0%	17.0%	65.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0					336844		722	7.00	9.10	78500	30	0.00	79/21	0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	12.6	87													

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Daily Summary

Activity Date :	11/28/2014	Days From Spud :	37	Current Depth :	13363 Ft	24 Hr. Footage Made :	243 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888				
Formation :	Wolfcamp	Weather:					

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	10	SUR @ 13071' / 91.8 INC / 174.3 AZM / 11733' TVD / VS 1549.73 / 29' L / 7' HIGH	13120	13120	11
6:30	3.00	02	SLIDE F/13120'-13230'. WOB 5 TO 10, GPM 218, MTR RPM 113, PSI 4025, DIFF 150 ROP 36	13120	13230	11
9:30	0.50	10	SUR @ 13165' / 91.3 INC / 175.7 AZM / 11771' TVD / VS 1641.65 / 10' L / 9.6 HIGH	13230	13230	11
10:00	8.00	02	SLD F/ 13230'-13270' , ROT F/ 13270'-13275' , SLD F/ 13275'-13326' WOB 5 , GPM 218 , MTR RPM 113 , PSI 3990 , 125 DIFF , ROP 12	13230	13326	11
18:00	3.50	02	ROT F/ 1326'-13331' WOB 8K , DIFF 250 , TQ 1500 , SLD F/ 13331'-13360' WOB 5 , GPM 218 , MTR RPM 113 , PSI 3990 , 120 DIFF . ROT F/ 13360' T/ 13363'	13326	13363	11
21:30	2.50	05	CIRCULATE X2 BOTTOMS UP , AND PUMP HIGH VIS SWEEP	13363	13363	11
0:00	6.00	06	PUMP SLUG POOH F/ 13363' T / 11740' DUE TO BUILD RATES . SPOT 14.1 PPG CONTROL PILL @ 11740' CONT POOH F/ 11740' T/ 6000' FILLING EVERY 5 STDS	13363	13363	11
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
13305	23:00	12.10	12.10	61	13	14	13/15/20		8.0	0	0.00	19.0%	18.0%	63.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0					379096		690	12.00	15.50	70000	78	0.00	78/22	0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	13.0	80											

Daily Summary

Activity Date :	11/29/2014	Days From Spud :	38	Current Depth :	13495 Ft	24 Hr. Footage Made :	132 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888				
Formation :	Wolfcamp	Weather:					

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	06	TOH TO CHANGE MTR	13363	13363	12
10:00	2.50	20	CHANGE OUT BHA PICK UP MTR 2.0 , 7/8 , 2.8 , .51 REV , CHANGE OUT MWD AND SURFACE TEST	13363	13363	12
12:30	3.50	06	MAKE UP BIT VAREL VM713 / TIH FILL EVERY 30 STD , CURRENT DEPTH 4400'	13363	13363	12
16:00	0.50	07	RIG SERVICE	13363	13363	12
16:30	5.00	06	CONT TIH F/ 4400' T/ 12000' FILLING EVERY 30 STANDS	13363	13363	12
21:30	1.00	05	CIRCULATE BOTTOMS UP	13363	13363	12
22:30	1.00	06	TIH F/ 12000' T/ 13263'	13363	13363	12
23:30	0.50	03	REAM F/ 13263' T/ 13363' ROT 40 , WOB 2-5K , GPM 209 , TQ 2100	13363	13363	12
0:00	4.00	02	SLD F/ 13363'-13414' WOB 5 , GPM 209 , MTR RPM 107 , PSI 3850 , 170 DIFF , TF 90L ROT F/ 13414' T/ 13429' GPM 209 , MTR RPM 107 , TQ 4950 , DIFF 250	13363	13429	12
4:00	0.50	10	SURVEY @ 13355' , 92.8 , 168.7 , TVD 11765	13429	13429	12
4:30	1.50	02	ROT F/ 13429'-13495' WOB 8K / GPM 209/ MTR RPM 107 / PSI 4000 / DIFF 290 / ROP 45'hr / OFF BTM PSI 3750	13429	13495	12
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
13336	23:00	12.10	12.10	60	13	14	13/18/24		8.0	0	0.00	19.0%	17.0%	64.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0					392640		673	13.00	16.80	70000	78	0.00	79/21	0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	13.1	76											

Well Name:University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		11/30/2014		Days From Spud :		39		Current Depth :		13972 Ft		24 Hr. Footage Made :		477 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Wolfcamp				Weather:										
Operations																
Start	Hrs	Code	Remarks									Start Depth	End Depth	Run		
6:00	1.00	02	ROT F/ 13495'-13512' WOB 15 / GPM 218 / MTR RPM 113 / PSI 3850 / DIFF 120 / ROP 17									13495	13512	12		
7:00	0.50	10	SUR @ 13450' / 91.7 INC / 159.10 AZM / 11762.13' TVD / VS 1923.58 / 18.9 R / 21.7 HIGH									13512	13512	12		
7:30	2.00	02	ROT F/ 13512'-13608' WOB 15 / GPM 218 / MTR RPM 113 / PSI 3950 / DIFF 250 / ROP 48									13512	13608	12		
9:30	0.50	10	SUR @ 13546' / 90.2 INC / 157.1 AZM / 11760' TVD / VS 2019.19 / 13 R / 20.4 HIGH									13608	13608	12		
10:00	3.50	20	SLD F/ 13608'-13608' , ROT F/ 13628'-13703' WOB 5-15 , GPM 218 , MTR RPM 113 , PSI 3990 , 275 DIFF , ROP 27									13608	13703	12		
13:30	0.50	10	SUR @ 13641' / 93.6 INC / 160.3 AZM / 11757' TVD / VS 2113.87 / 5' R / 23.6 HIGH									13703	13703	12		
14:00	2.00	02	ROT F/ 13703'-13717' SLD F/ 13717'-13730' ROT F/ 13730'-13756' WOB 15 / GPM 218 / MTR RPM 113 / PSI 3950 / DIFF 250 / ROP 48									13703	13756	12		
16:00	0.50	07	RIG SERVICE									13756	13756	12		
16:30	1.50	02	ROT F/ 13756'-13781' WOB 15 / GPM 218 / MTR RPM 113 / PSI 3950 / DIFF 220									13756	13781	12		
18:00	1.00	05	CIRCULATE AND WORK PIPE , ROT 45 , GPM 209 , BEGIN TQ 4035 END 2350									13781	13781	12		
19:00	0.50	02	ROT F/ 13781'-13798' WOB 15 / GPM 218 / MTR RPM 113 / PSI 3850 / DIFF 220									13781	13798	12		
19:30	2.50	05	PUMP TWO HIGH VIS SWEEPS TO CLEAN HOLE , START RT/WT 185 , P/U 200 , SL/WT 170 , END START TQ 4850 END 2900									13798	13798	12		
22:00	1.00	20	SLD F/ 13798'-13808' WOB 17 , GPM 209 , MTR RPM 107 , PSI 3700 , 140 DIFF ,TF 90R ROT F/ 13808'-13891' WOB 15 / GPM 209 / MTR RPM 107 / PSI 3950 / DIFF 210									13798	13891	12		
23:00	0.50	10	SUR @ 13736' / 93.8 INC / 161.8 AZM / 11751' TVD									13891	13891	12		
23:30	6.50		ROT F/ 13891'-13972' WOB 17 , GPM 209 , MTR RPM 107 , PSI 4050 , 330 DIFF , TQ 5700-6400									13891	13972	12		
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
13797	22:00	12.30	12.30	61	11	20	11/15/24		8.0	0	0.00	20.0%	17.0%	63.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0					367818		654	11.00	14.20	63000	35	0.00	79/21	0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	13.3	78													

Well Name:University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		12/1/2014		Days From Spud :		40		Current Depth :		14499 Ft		24 Hr. Footage Made :		527 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Wolfcamp				Weather:										
Operations																
Start	Hrs	Code	Remarks									Start Depth	End Depth	Run		
6:00	1.00	02	ROT F/ 13972'-13989' WOB 15 / GPM 218 / MTR RPM 113 / PSI 3850 / DIFF 120 / ROP 17									13972	13989	12		
7:00	0.50	10	SUR @ 13927' / 93.8 INC / 164.2 AZM / 11739' TVD / VS 2399.23 / 1.9 R / 41 HIGH									13989	13989	12		
7:30	4.00	02	ROT F/ 13989'-13999' SLD F/ 13999'-14010' ROT F/ 14010'-14085' WOB 15 / GPM 218 / MTR RPM 113 / PSI 3950 / DIFF 250 / ROP 24									13989	14085	12		
11:30	0.50	07	RIG SERVICE									14085	14085	12		
12:00	0.50	10	SUR @ 14023' / 93.7 INC / 164.0 AZM / 11733' TVD / VS 2495.01 / 3.2 R / 47.4 HIGH									14085	14085	12		
12:30	4.00	02	ROT F/ 14085'-14090' SLD F/ 14090'-14099' ROT F/ 14099'-14181' WOB 15 / GPM 218 / MTR RPM 113 / PSI 4050 / DIFF 250 / ROP 27									14085	14181	12		
16:30	0.50	10	SURVEY @ 14119' , 93.5 , 163.9 TVD 11727'									14181	14181	12		
17:00	1.00	02	ROT F/ 14181'-14191' .SLD F/ 14191'-14203'									14181	14203	12		
18:00	2.50	02	ROT F/ 14203'-14212' WOB 17 / GPM 209 / MTR RPM 107 / PSI 4050 / DIFF 320, ROT 40.. SLD F/ 14212'-14218' WOB 8-10 , GPM 209 , PSI 3730 , TQ 1200-1500 , TF 180. ROT F/ 14218'-14275'.. SURVEY @ 14213 , 91.8 , 165.8 , TVD 11723'									14203	14275	12		
20:30	0.50	10	SURVEY @ 14213 , 91.8 , 165.8 , TVD 11723'									14275	14275	12		
21:00	3.50	02	ROT F/ 14275'-14290' WOB 17 / GPM 209 / MTR RPM 107 / PSI 3950 / DIFF 220, ROT 40.... SLD F/ 14290'-14300' WOB 8-10 , GPM 209 , PSI 3730 , TQ 1200-1500 , TF 90L. ROT F/ 14300' T/ 14370'									14275	14370	12		
0:30	0.50	10	SURVEY @ 14309 , 90.2 , 165.8 , TVD 11721									14370	14370	12		
1:00	2.50	02	ROT F/ 14370'-14386' WOB 16 / GPM 209 / MTR RPM 107 / PSI 4050 / DIFF 350, ROT 40..SLD F/ 14386'-14401' WOB 8-10 , GPM 209 , PSI 3730 , TQ 600-1000 , TF 70L. ROT F/ 14401 T/ 14466'									14370	14466	12		
3:30	0.50	10	SURVEY @ 14404' , 88.3 , 160.1 , TVD 11722									14466	14466	12		
4:00	2.00	02	ROT F/ 14466'-14476' SLD F/ 14476'-14499' WOB 13 , GPM 209 , PSI 3830 , TQ 1000 , TF 10R , DIFF 130									14466	14499	12		
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
14015	21:00	12.30	1.30	62	11	20	12/16/19		88.0	0	0.00	20.0%	17.0%	63.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0					356548		671	11.00	14.20	60000	33	0.00	79/21	0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	13.3	102													

Well Name:University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		12/2/2014		Days From Spud :		41		Current Depth :		14972 Ft		24 Hr. Footage Made :		473 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Wolfcamp				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	3.50	02	SLD F/ 14499'-14506' , ROT F/ 14506'-14561' WOB 5-15 , GPM 218 , MTR RPM 113 , PSI 3990 , 275 DIFF , ROP 18										14499	14561	12	
9:30	0.50	10	SUR @ 14499' / 90.7 INC / 158.6 AZM / 11723' TVD / VS 2970.26 / 7.1 R / 57.7 HIGH										14561	14561	12	
10:00	3.50	02	ROT F/ 14561'-14578' SLD F/ 14578'-14588' ROT F/ 14588'-14656' WOB 15 / GPM 218 / MTR RPM 113 / PSI 4050 / DIFF 250 / ROP 27										14561	14656	12	
13:30	0.50	10	SUR @ 14594' / 91.6 INC / 159.7 AZM / 11721' TVD / VS 3065 / 3.5 L / 60 HIGH										14656	14656	12	
14:00	0.50	07	RIG SERVICE										14656	14656	12	
14:30	3.50	02	ROT F/ 14656'-14674' SLD F/ 14674'-14686' ROT F/ 14686'-14730' WOB 15 / GPM 218 / MTR RPM 113 / PSI 4050 / DIFF 290 / ROP 21. SLD F/ 14730' T/ 14738'										14656	14738	12	
18:00	0.50	02	ROT F/ 14738'-14750' WOB 15 / GPM 226 / MTR RPM 115 / PSI 4050 / DIFF 290.										14738	14750	12	
18:30	0.50	10	SURVEY @ 14689 , 92.6 , 159.9 , TVD 11718'										14750	14750	12	
19:00	4.50	02	ROT F/ 14750'-14755' WOB 15 / GPM 226 / MTR RPM 115 / PSI 4150 / DIFF 350, TQ 6800. SLD F/ 14755'-14763'. ROT F/ 14763'-14850' WOB 15 / GPM 226 / MTR RPM 115 / PSI 4220 / DIFF 250										14750	14850	12	
23:30	0.50	10	SURVEY @ 14784 , 92.1 , 160.7 , TVD 11714'										14850	14850	12	
0:00	4.50	02	SLD F/ 14850'-14870'. ROT F/ 14870'-T/14940' WOB 10 / GPM 226 / MTR RPM 115 / PSI 4180 / DIFF 260, TQ 6400										14850	14940	12	
4:30	0.50	10	SURVEY @ 14878' , 94.1 , 164.2 , TVD 11709'										14940	14940	12	
5:00	1.00	02	ROT F/ 14940'-14972' WOB 8 / GPM 226 / MTR RPM 115 / PSI 4150 / DIFF 250, TQ 4850										14940	14972	12	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
14760	20:50	12.30	12.30	64	11	20	12/16/19		88.0	0	0.00	20.0%	17.0%	63.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0					230856		640	5.50	7.10	51025	18	0.00	79/21	0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	13.3	98													

Well Name:University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		12/3/2014		Days From Spud :		42		Current Depth :		15361 Ft		24 Hr. Footage Made :		389 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Wolfcamp				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	2.00	02	ROT F/ 14972'-15036' WOB 5-15 , GPM 223 , MTR RPM 113 , PSI 4150 , 200 DIFF , ROP 32										14972	15036	12	
8:00	0.50	10	SUR @ 14974' / 94.1 INC / 163.0 AZM / 11702' TVD / VS 3444 / 14.9 L / 78.7 HIGH										15036	15036	12	
8:30	4.50	02	ROT F/ 15036'-15051' SLD F/ 15051'-15061' ROT F/ 15061'-15130' WOB 15 / GPM 223 / MTR RPM 113 / PSI 4200 / DIFF 225 / ROP 21										15036	15130	12	
13:00	0.50	10	SUR @ 15068' / 92.2 INC / 162.2 AZM / 11697' TVD / VS 3538 / 16 L / 84 HIGH										15130	15130	12	
13:30	0.50	07	RIG SERVICE										15130	15130	12	
14:00	2.50	02	ROT F/ 15130'-15135' , SLD F/ 15135'-15149' WOB 5-15 , GPM 218 , MTR RPM 113 , PSI 3990 , 275 DIFF , ROP 18										15130	15149	12	
16:30	4.00	05	RACK BACK 1 STAND ,REAM PIPE F/ 15130' T/ 15036' , PSI 3861 , TQ BEGIN 8000 END TQ 4800 PUMP X3 HIGH VIS SWEEPS										15149	15149	12	
20:30	3.50	02	ROT F/ 15149'-15224' , WOB 10 , GPM 209 , MTR RPM 107 , PSI 4120 , 275 DIFF , TQ 6800 , ROP 21'HR										15149	15224	12	
0:00	0.50	10	SUR @ 15162' / 94.2 INC / 164.9 AZM / 11695' TVD / VS 3630.59										15224	15224	12	
0:30	4.00	02	ROT F/ 15224'-15320' , WOB 15 , GPM 209 , MTR RPM 107 , PSI 4120 , 275 DIFF , TQ 6800 , ROP 24'HR										15224	15320	12	
4:30	0.50	10	SUR @ 15258' / 93.8 INC / 164.9 AZM / 11685' TVD / VS 3726.32 , 13.1 LEFT , 95.9 HIGH										15320	15320	12	
5:00	1.00	02	ROT F/ 15320'-15361' , WOB 12 , GPM 209 , MTR RPM 107 , PSI 4110 , 200 DIFF , TQ 5500- 6840 , ROP 41'HR										15320	15361	12	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
15149	21:50	12.50	12.50	67	20	24	15/19/21		8.0	0	0.00	20.0%	18.0%	62.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0					233880		640	5.50	7.10	54950	19	0.00	77/23	0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	13.9	98													

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Daily Summary

Activity Date :	12/4/2014	Days From Spud :	43	Current Depth :	15604 Ft	24 Hr. Footage Made :	243 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888				
Formation :	Wolfcamp	Weather:					

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.50	02	ROT F/ 15361'-15380' SLD F/ 15380'-15386' ROT F/ 15386'-15415' WOB 15 / GPM 218 / MTR RPM 113 / PSI 4100 / DIFF 225 / ROP 16	15361	15415	12
9:30	0.50	10	SUR @ 15353' / 94.5 INC / 165.5 AZM / 11678.45' TVD / VS 3822.28 / 9.9 L / 102 HIGH	15415	15415	12
10:00	5.00	02	ROT F/ 15415'-15446' SLD F/ 15446'-15456' ROT F/ 15456'-15509' WOB 15 / GPM 218 / MTR RPM 113 / PSI 4100 / DIFF 225 / ROP 19	15415	15509	12
15:00	0.50	07	RIG SERVICE	15509	15509	12
15:30	0.50	10	SUR @ 15447' / 92.1 INC / 164.7 AZM / 11673.04' TVD / VS 3916.06 / 7.2 L / 108 HIGH	15509	15509	12
16:00	2.00	02	ROT F/ 15509'-15555' WOB 12 , RPM 43, GPM 212 , PSI 4100 , DIFF 200 , TQ 750. SLIDE F/ 15555' T/ 15558'	15509	15558	12
18:00	3.50	02	SLIDE F/ 15558' T/ 15565' . ROT F/ 15565'-15604' WOB 20 / GPM 212 / MTR RPM 113 / PSI 4100 / DIFF 100	15558	15604	12
21:30	0.50	10	SUR @ 15542' / 90.6 INC / 163.8 AZM / 11670' TVD / VS 4011 / 5.8 L / 110 HIGH	15604	15604	12
22:00	2.00	05	STOP DRILLING DUE TO EXCESSIVE HRS ON BIT AND MOTOR.. BIT & MTR HRS 108 , CIRC HRS 7.5 . .PREFORM CLEAN UP CYCLE @ 15604' PUMP X2 HIGH VIS SWEEPS WHILE RECIPROCATING PIPE CONTINUOUSLY	15604	15604	12
0:00	3.00	06	BEGIN POOH F/ 15604' T/ 11750' TO PICK UP NEW BIT & MTR	15604	15604	12
3:00	0.50	05	SPOT 80BBLs OF 14.5 PPG CONTROL PILL @ 11751'	15604	15604	12
3:30	2.50	06	POOH F/ 11750' T/ 7000' FILLING EVERY 5 STANDS	15604	15604	12
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
15604	23:00	12.50	12.50	68	20	24	15/19/21		8.0	0	0.00	20.0%	18.0%	62.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0					233880		650	5.50	7.10	54950	19	0.00	77/23	0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	13.9	98											

Daily Summary

Activity Date :	12/5/2014	Days From Spud :	44	Current Depth :	15604 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888				
Formation :	Wolfcamp	Weather:					

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	5.00	06	POOH FOR BHA CHANGE DUE TO HRS	15604	15604	12
11:00	3.00	20	CHANGE OUT MTR AND MWD , REAMER , AND ADJ / PICK UP 4 3/4 , 7/8 , 3.8 , 1.75 FIX BIT BEND 3.65 , 0.52 RPG/ NEW ADJ AND TWO REAMERS SERFACE TEST / MAKE UP BIT VAREL VM 713 SN-4007433 (RE-RUN)	15604	15604	12
14:00	7.50	06	TIH FILL EVERY 30 STDS T/11040'	15604	15604	13
21:30	1.50	09	SLIP & CUT DRLG LINE	15604	15604	13
23:00	1.00	06	RIH T/12450' FILL PIPE	15604	15604	13
0:00	1.00	05	CIR BTM UP, MAX GAS 1760	15604	15604	13
1:00	5.00	03	REAMING F/12450'-14475 , GPM 217, RPM 65, MTR RPM 113, SPP 3850	15604	15604	13
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
15604	20:00	12.50	12.50	67	20	24	15/19/21		8.0	0	0.00	20.0%	18.0%	62.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0					233880		650	5.50	7.10	54950	19	0.00	77/23	0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	13.9	98											

Well Name:University 35-20 #2H															
Field Name: PHANTOM (WOLFCAMP)			S/T/R: //			County, State: Winkler, TX									
Operator: ergen Resources Corporat			Location Desc:			District: Resource District									
Daily Summary															
Activity Date :		12/6/2014		Days From Spud :		45		Current Depth :		16087 Ft		24 Hr. Footage Made :		483 Ft	
Rig Company :		Nabors				Rig Name:		Nabors S888							
Formation :		Wolfcamp				Weather:									
Operations															
Start	Hrs	Code	Remarks									Start Depth	End Depth	Run	
6:00	3.00	03	REAM F/14283-15327, RPM 65, GPM 218, SPP 4100, REAMING REDUCED TQ F/6500-8000 TO 3500-5500									15604	15604	13	
9:00	4.00	20	RELOG F/15327'-15604' @ 100ft/hr, RPM 65, GPM 218, SPP 4100									15604	15604	13	
13:00	4.00	02	ROT F/15604'-15707' (103') ROP 26, RPM 60, GPM 200, MTR RPM 104, SPP 4200, DIFF 175									15604	15707	13	
17:00	0.50	07	RIG SERVICE									15707	15707	13	
17:30	5.50	02	ROT F/15707'-15906 (199') ROP 36, WOB 12, RPM 60, GPM 208, MTR RPM 108, SPP 4200, DIFF 330									15707	15896	13	
23:00	2.00	20	SLIDE F/15906-15916 (10') ROP 9 , WOB 14 GPM 208, MTR RPM 108, SPP 3900, DIFF 120									15896	15916	13	
1:00	5.00	02	ROT F/15916-16087 (171') ROP 34 , WOB 12 GPM 208, MTR RPM 108, SPP 4200, DIFF 330									15916	16087	13	
Total:		24.00													
Mud Properties															
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
15813	21:00	12.60	12.60	67	19	26	15/19/21		8.0	0	0.00	24.0%	15.0%	61.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0					253824		650	5.30	6.80	51025	18	0.00	80/20	0	
Water Loss		LCM	ECD	FL Temp	Remarks										
0		0.0	14.0	98											

Well Name: University 35-20 #2H																	
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County, State:		Winkler, TX			
Operator:		Ergen Resources Corporat				Location Desc:						District:		Resource District			
Daily Summary																	
Activity Date :		12/7/2014		Days From Spud :		46		Current Depth :		16583 Ft		24 Hr. Footage Made :		496 Ft			
Rig Company :		Nabors				Rig Name:		Nabors S888									
Formation :		Wolfcamp				Weather:											
Operations																	
Start	Hrs	Code	Remarks									Start Depth	End Depth	Run			
6:00	0.50	10	SUR @ 16025' / 91.4 INC / 168.8 AZM / 11662.94' TVD / VS 4493.8 / OTL / 118 HIGH									16097	16097	13			
6:30	3.50	02	ROT F/ 16087'-16097' SLD F/ 16097'-16107' ROT F/ 16107'-16182' WOB 15 / GPM 200 / MTR RPM 100 / PSI 4200 / DIFF 275 / ROP 27									16087	16182	13			
10:00	0.50	10	SUR @ 16120' / 91.4 INC / 165.1 AZM / 11660.61' TVD / VS 4588.7 / 2.7 R / 120 HIGH									16182	16182	13			
10:30	3.50	02	ROT F/ 16182'-16192' SLD F/ 16192'-16202' ROT F/ 16202'-16276' WOB 15 / GPM 200 / MTR RPM 100 / PSI 4200 / DIFF 275 / ROP 31									16182	16276	13			
14:00	0.50	07	RIG SERVICE									16276	16276	13			
14:30	0.50	10	SUR @ 16214' / 90.5 INC / 164.8 AZM / 11659' TVD / VS 4682.65.7 / 5.3 R / 121 HIGH									16276	16276	13			
15:00	4.00	02	ROT F/ 16276'-16372' (96') ROP 24, WOB 10- 15 / GPM 208 / RPM 60 / MTR RPM 108 / PSI 4200 / DIFF 330									16276	16372	13			
19:00	0.25	10	SUR @ 16310' 90.4°, 162.6 AZ, 11658 TVD, 4778.63 VS, 122 HIGH, 6 RIGHT									16372	16372	13			
19:15	2.50	02	ROT F/16372'-16447 (75') ROP 30, WOB 10- 15 / GPM 208 / RPM 60 / MTR RPM 108 / PSI 4200 / DIFF 330									16372	16447	13			
21:45	1.00	20	SLIDE F/16447-16457 (75') ROP 30, WOB 10- 15 / GPM 208 / MTR RPM 108 / PSI 3950 / DIFF 165									16447	16457	13			
22:45	0.50	02	ROT F/16457-16465 (8') ROP 16, WOB 10- 15 / GPM 208 / RPM 60 / MTR RPM 108 / PSI 4200 / DIFF 330									16457	16465	13			
23:15	0.25	10	SUR @ 16404 92.3°, 162.30 AZ, 11656.09 TVD, 4872.6 VS, 125 HIGH, 5 RIGHT									16465	16465	13			
23:30	0.75	02	ROT F/16465-16477 (12') ROP 16, WOB 7 / GPM 208 / RPM 70 / MTR RPM 108 / PSI 4100 / DIFF 150/ CONTROL DRLG DUE TO BUILDING IN ROTATION									16465	16477	13			
0:15	0.75	20	SLIDE F/16477-16487 (10') ROP 13, WOB 10- 15 / GPM 208 / MTR RPM 108 / PSI 3950 / DIFF 160									16477	16487	13			
1:00	2.75	02	ROT F/16487-16561 (74') ROP 30, WOB 7-12/ GPM 208 / RPM 70/ MTR RPM 108 / PSI 4170 / DIFF 300 / CONTROL DRLG DUE TO BUILDING IN ROTATION / REAM TWICE (.25hr)									16487	16561	13			
3:45	0.25	10	SUR @ 16499' 89.3°, 162.8 AZ, 11654.76 TVD, 4967.57 VS, 126 HIGH, 4 RIGHT									16561	16561	13			
4:00	1.00	02	ROT F/16561-16583 (22') ROP 22, WOB 12/ GPM 208 / RPM 70/ MTR RPM 108 / PSI 4170 / DIFF 300 / TD @ 16583'									16561	16583	13			
5:00	0.25	10	SUR @ 16522' 90.2°, 163 AZ, 11654 TVD, 4990.57 VS, 126 H, 3 R / PROJECTION AT BIT, 16583' 90.2°, 163 AZ, 11654.64 TVD, 5052.57 VS, 126 H, 3 R									16583	16583	13			
5:15	0.75	05	PUMP SWEEPS, CIR OUT, CONDITION, WORK PIPE									16583	16583	13			
Total:		24.00															
Mud Properties																	
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand		
16308	17:00	12.70	12.70	67	21	26	15/18/20		8.0	0	0.00	20.0%	20.0%	60.0%	0.0%		
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss			
0.0					190611		650	5.00	6.50	47100	16	0.00	75/25	0			
Water Loss	LCM	ECD	FL Temp	Remarks													
0	0.0	14.0	98														

Well Name: University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County, State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		12/8/2014		Days From Spud :		47		Current Depth :		16583 Ft		24 Hr. Footage Made :		0 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Wolfcamp				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	3.00	05	CIRC AND CONDITION PUMP 3 HIGH VIS SWEEPS AND CIRC OUT WHILE WORKING STRING										16583	16583	13	
9:00	2.50	06	SHORT TRIP UP TO 11600' NO ISSUES										16583	16583	13	
11:30	0.50	21	MONNITOR WELL ON TRIP TANK										16583	16583	13	
12:00	1.00	06	TIH TO 14505' CIRC BTM UP WITH 2250 TRIP GAS										16583	16583	13	
13:00	2.50	06	TIH TAG UP @ 16156'										16583	16583	13	
15:30	2.00	03	FILL PIPE AND BREAK CIRC / REAM AND WASH F/ 16120'-16583'										16583	16583	13	
17:30	6.75	05	CONDITION & CIRCULATE OUT 3 SWEEPS, HOLE CONTINUE TO UNLOAD, PUMP AND CIRCULATE OUT 2 ADDITIONAL SWEEPS, HOLE CLEAN										16583	16583	13	
0:15	0.25	05	PUMP SLUG, FLOW CHECK, FILL TRIP TANK										16583	16583	13	
0:30	2.75	06	POOH TO 11805', MU TO STRING, PU TO 11774' / KEEPING HOLE FULL W/TRIP TANK, STRAPPING OUT, FLOW CHECKS EVERY 30 STNDS										16583	16583	13	
3:15	0.50	05	SPOT 70bbl 14.7lb PILL @ 11774'										16583	16583	13	
3:45	2.25	06	POOH FOR 4.5" CSG RUN / KEEPING HOLE FULL W/TRIP TANK, STRAPPING OUT, FLOW CHECKS EVERY 30 STNDS										16583	16583	13	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
16583	17:00	12.70	12.70	67	21	26	15/18/20		8.0	0	0.00	20.0%	20.0%	60.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0					190611		650	5.00	6.50	47100	16	0.00	75/25	0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	14.2	98													

Well Name:University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County,State:		Winkler, TX		
Operator:		ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		12/9/2014		Days From Spud :		48		Current Depth :		16583 Ft		24 Hr. Footage Made :		0 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Wolfcamp				Weather:										
Operations																
Start	Hrs	Code	Remarks									Start Depth	End Depth	Run		
6:00	2.00	06	POOH FOR 4.5" CSG RUN / KEEPING HOLE FULL W/TRIP TANK, STRAPPING OUT, FLOW CHECKS EVERY 30 STNDS									16583	16583	13		
8:00	6.50	06	LAY DOWN DRILL PIPE 4.5" CSG RUN / KEEPING HOLE FULL W/TRIP TANK, FLOW CHECKS EVERY 30 STNDS									16583	16583	13		
14:30	2.50	06	LAY DOWN DIRECTIONAL ASSY									16583	16583	13		
17:00	0.50	07	FIX HYD LEAK ON DRAW WORKS									16583	16583	13		
17:30	3.00	12	CLEAN AND PREP FLOOR / RIG UP CSG CREW AND TQ TURN / SAFETY MEETING									16583	16583	13		
20:30	1.50	12	ATTEMPT TO MAKE UP SHOE TRACK UNABLE TO TQ UP / TQ TURN NOT RESPONDING CHANGE OUT CABLES AND LOAD CELLS CHECK CONNECTIONS COMPUTER FAILURE / RIG DOWN CHOCTAW TQ TURN / BREAK SHOE, SHOE THREADS GOOD, 15.48' CSG JNT PIN THREADS ROLLED A LITTLE, LD 15.48' JNT CSG, PU 16.33' JNT CSG FOR SHOE JNT									16583	16583	13		
22:00	2.75	12	WAIT ON PREMIER TQ TURN (00:15)/ RU TQ TURN									16583	16583	13		
0:45	1.50	12	MU SHOE TRK, FILL AND TEST FLOATS									16583	16583	13		
2:15	3.75	12	RUN 4.5" 15.1# P110 PTC CSG, USE CLAMP FOR FIRST 30 JNTS, FILL CSG EVERY 30 JNTS & PUMPING ADDITIONAL 2min AFTER FLOW, TRIP SPEED @ 2min JNT, MONITOR HOLE DISPLACMENT									16583	16583	13		
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
16583	17:00	12.70	12.70	67	21	26	15/18/20		8.0	0	0.00	20.0%	20.0%	60.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0					190611		650	5.00	6.50	47100	16	0.00	75/25	0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	14.2	98													

Well Name: University 35-20 #2H																
Field Name:		PHANTOM (WOLFCAMP)				S/T/R:		//				County, State:		Winkler, TX		
Operator:		Ergen Resources Corporat				Location Desc:						District:		Resource District		
Daily Summary																
Activity Date :		12/10/2014		Days From Spud :		49		Current Depth :		16583 Ft		24 Hr. Footage Made :		0 Ft		
Rig Company :		Nabors				Rig Name:		Nabors S888								
Formation :		Wolfcamp				Weather:										
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	8.50	12	RUN 4.5" 15.1# P110 PTC CSG, FILL CSG EVERY 30 JNTS & PUMPING ADDITIONAL 2min AFTER FLOW, TRIP SPEED @ 2min JNT, MONITOR HOLE DISPLACMENT										16583	16583	13	
14:30	1.00	12	MU BAKER LINER HANGER PACKER ASSY. RIH										16583	16583	13	
15:30	1.00	12	RIG DOWN CSG CREW, READY RIG FLOOR FOR TIH										16583	16583	13	
16:30	0.50	12	LATCHUP 1 STND DP, PULL TRIP NIPPLE, INSTALL RT HEAD										16583	16583	13	
17:00	1.00	05	CIR BTM UP @ 6020' W/ SPP 926 @28 SPM, TO 1000stks, KEEPING SPP UNDER 1500 AS PER BAKER HAND										16583	16583	13	
18:00	5.50	12	RIH W/DP ON 4.5" 15.1# P110 PTC CSG, T/ 10800', FILL CSG EVERY 15 stnds & PUMPING ADDITIONAL 2min AFTER FLOW W/SPP UNDER 1500, TRIP SPEED @ 2-4min stnd, MONITOR HOLE DISPLACMENT/ RUNNING RABBIT BEFOR CONN.										16583	16583	13	
23:30	3.50	05	FILL PIPE, CIR BTM UP @ 10800' W/SPP 1100, STAGE STKS F/4-17 KEEPING SPP UNDER 1200psi AS PER BAKER HAND, (TAKES 1500psi TO SET PKR)										16583	16583	13	
3:00	2.75	12	RIH W/DP ON 4.5" 15.1# P110 PTC CSG, T/ 13000', FILL CSG EVERY 15 stnds & PUMPING ADDITIONAL 2min AFTER FLOW W/SPP UNDER 1200psi, TRIP SPEED @ 2-4min stnd, MONITOR HOLE DISPLACMENT/ RUNNING RABBIT BEFOR CONN.										16583	16583	13	
5:45	0.25	05	FILL PIPE, CIR BTM UP @ 13000' W/SPP 1100, STAGE UP STKS F/6spm KEEPING SPP UNDER 1200psi AS PER BAKER HAND, (TAKES 1500psi TO SET PKR)										16583	16583	13	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
16583	10:00	12.80	12.80	67	21	26	15/18/20		8.0	0	0.00	22.0%	18.0%	60.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0					22864		650	5.00	6.50	51025	20	0.00	77/23	0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	14.3	98													

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Daily Summary

Activity Date :	12/11/2014	Days From Spud :	50	Current Depth :	16583 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888	Formation :	Wolfcamp	Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	05	FILL PIPE, CIR BTM UP @ 13000' W/SPP 1100, STAGE UP STKS F/6-15spm KEEPING SPP UNDER 1200psi AS PER BAKER HAND, (TAKES 1500psi TO SET PKR)	16583	16583	13
10:00	5.25	12	RIH W/DP ON 4.5" 15.1# P110 PTC CSG, T/ 16376', FILL CSG EVERY 15 stnds & PUMPING ADDITIONAL 2min AFTER FLOW W/SPP UNDER 1200psi, TRIP SPEED @ 2-4min stnd, MONITOR HOLE DISPLACMENT/ RUNNING RABBIT BEFOR CONN.	16583	16583	13
15:15	1.25	12	WASH W/DP ON 4.5" 15.1# P110 PTC CSG, T/ 16583', SPP UNDER 1200psi, TRIP SPEED @ 2-4min stnd, MONITOR HOLE DISPLACMENT/ RUNNING RABBIT BEFOR CONN.	16583	16583	13
16:30	5.50	05	CIR BTM UP @ 16583' W/1100spp, 6-15spm, CIR THROUGH SEP. AT HALVE BTM UP STKS, MAX GAS 1080units/ SFTY MTG W/HALIB/BAKER/CREWS	16583	16583	13
22:00	1.25	12	LD 1 JNT DP, PU PUP JNTS, PU BAKER HEAD, SPACE OUT, RU CMTRS, TEST	16583	16583	13
23:15	3.25	12	DROP BALL / SET HANGER W/ 2300 PSI SET 75K BLEW BALL SEAT W/ 3225 PSI / RELEASE SETTING TOOL VERIFIED PICK UP WT BEFOR 240K AFTER 195K, LINER TOP @ 10679'	16583	16583	13
2:30	3.50	12	PUMP 40 BBL SPACER 13# / 19 BBL 85sx 14.4# LEAD / 123BBL 425sx 14.4# TAIL, DROP DART / DISPLACE W/ 20BBL KCL WATER W/SUGAR / 59 BBL KCL / 10 BBL FW / 111 BBL OBM, BUMPED PLUG W /2300PSI FCP 1800, 500psi OVER, FLOATS HELD, 1bbl BACK BUMP PLUG @ 0555	16583	16583	13

Total:	24.00	
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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
16583	10:00	12.80	12.80	67	21	26	15/18/20		8.0	0	0.00	22.0%	18.0%	60.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0					22864		650	5.00	6.50	51025	20	0.00	77/23	0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	14.3	98											

Daily Summary

Activity Date :	12/12/2014	Days From Spud :	51	Current Depth :	16583 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888	Formation :	Wolfcamp	Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	TC	SET PACKER, LINE UP FOR POSITIVE TEST, HELD FOR 10 MINUTES @2000# - TEST BLED OFF	16583	16583	13
6:30	2.50	05	REVERSE CIRCULATE 31.5 BBLS CEMENT, 40 BBLS SPACER	16583	16583	13
9:00	5.00	06	LD 3RD PARTY TOOLS TOH	16583	16583	13
14:00	0.50	06	PULL ROTATING HEAD INSTALL TRIP NIPPLE	16583	16583	13
14:30	2.00	06	CONTINUE TOH	16583	16583	13
16:30	10.50	06	PU ABRADO TOOLS, MU AND TIH @ 3-5min STND , T/10617', TAGED DEBRIS	16583	16583	14
3:00	1.00	06	BROUGHT UP PUMP T/50spm, 216 GPM, SPP 1950, ROT 40 RPM, WASHED REAM DOWN W/LITTLE EFFORT, FREE TRAVEL @ 10667, NO ROT, TAGGED @ 10679', WORK PIPE FULL LENGTH 3X	16583	16583	14
4:00	1.50	05	CIR BTM UP @ 10673'	16583	16583	14
5:30	0.50	21	RU HALIB. 1502 IRON & FLUSH RIG LINE W/DIESEL, FOR NEG TEST	16583	16583	14

Total:	24.00	
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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
16583	10:00	12.80	12.80	67	21	26	15/18/20		8.0	0	0.00	22.0%	18.0%	60.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0					22864		650	5.00	6.50	51025	20	0.00	77/23	0	
Water Loss		LCM	ECD	FL Temp		Remarks									
0		0.0	14.3	98											

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Daily Summary

Activity Date :	12/13/2014	Days From Spud :	52	Current Depth :	16583 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888	Formation :	Wolfcamp	Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.75	21	SET PACKER, SHEAR PINS @15,000#, SET DOWN TO 20,000#	16583	16583	14
6:45	0.25	21	TEST BACKSIDE @1,000 PSI, PACKER GOOD, BLEED OFF PSI	16583	16583	14
7:00	0.75	21	FLUSH RIG LINES AND HALLIBURTON LINES, PRESSURE TEST HALLIBURTON LINES	16583	16583	14
7:45	0.75	05	DISPLACE PIPE WITH 10 BBLs DIESEL SPACER FOLLOWED BY 102 BBLs KCL, FCP 3,060, PSI SETTLED DOWN TO 2,616 PSI, BLED DOWN IN 500 PSI INCREMENTS TO 0 PSI, 1 1/2 BBLs RETURNED TO PUMP TRUCK TANKS.	16583	16583	14
8:30	0.50	21	MONITORED FOR 30 MINUTES, WELL STATIC TEST GOOD	16583	16583	14
9:00	0.75	05	DISPLACE HOLE WITH KCL 215 BBLs, DIESEL SPACER RETURN, TURN TO RESERVE.	16583	16583	14
9:45	1.25	01	RD HALLIBURTON AND ABRADO, CLEAN TRIP TANK AND FILL WITH KCL WATER	16583	16583	14
11:00	10.50	25	LD DP. DALE MEYER TRUCKING CURRENTLY MOVING ALL NABORS 5" DP AND ALL DC'S TO NABORS YARD AND 4" TO NEW LOCATION	16583	16583	14
21:30	4.00	28	RD CATCH CAN F/BOP, NIPPLE DOWN/ LD BOP, REMOVE DSA, PREP FOR WELL HEAD	16583	16583	14
1:30	2.00	14	INSTALL PRODUCTION HEAD, TEST PRIMARY & SECONDARY SEALS T/5000psi, TEST GOOD, INSTALL CAP	16583	16583	14
3:30	2.50	37	JET, CLEAN PITS	16583	16583	14
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
	0:00	0.00	0.00	0	0	0	0/0/0		0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0					0		0	0.00	0.00	0	0	0.00		0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	0.0	0											

Daily Summary

Activity Date :	12/14/2014	Days From Spud :	53	Current Depth :	16583 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Nabors	Rig Name:	Nabors S888	Formation :		Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	6.00	37	CLEAN MUD TANKS	16583	16583	14
12:00	18.00	01	RELEASE RIG @12:00 12/13/14	16583	16583	14
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
16583	0:00	0.00	0.00	0	0	0	0/0/0		0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0					0		0	0.00	0.00	0	0	0.00		0	
Water Loss		LCM	ECD	FL Temp				Remarks							
0		0.0	0.0	0											

Well Name: University 35-20 #2H

Field Name:	PHANTOM (WOLFCAMP)	S/T/R:	//	County, State:	Winkler, TX
Operator:	ergen Resources Corporat	Location Desc:		District:	Resource District

Formation

Formation Name	Current Well Top	Subsea Datum	Ref Well Top	Elec Top	Comments
Wolfcamp "C"	0	28	12475	0	
Wolfcamp "B"	0	28	11925	0	
Wolfcamp	0	28	11600	0	
Top Delaware Group	0	28	5020	0	
Rustler	0	28	745	0	
Bone Spring	0	28	8550	0	
rd Bone Spring San	0	28	11350	0	
Bone Spring Carbor	0	28	10540	0	
nd Bone Spring San	0	28	10290	0	
Bone Spring Carbor	0	28	10240	0	
st Bone Spring San	0	28	9590	0	
Bone spring Carbor	0	28	8660	0	

Casing

DateIn	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	HoleDiam	TD
10/15/2014	120	3	1. Conductor	20	94	F-25*	0	24	120
10/27/2014	4959.99	133	3. Surface	9.625	40	N-80	0	12.25	4960
Stage: 1, Spacer, 20, 0, FRESH WATER, Class C, 0, 0									
Stage: 1, Lead, 0, 650, 6% GEL , 0.2% R-20 , 0.1%CD-35 , 0.25%# CELLOFLAKE , , 5% SALT, Class C, 1.99, 12.6									
Stage: 1, Tail, 0, 180, 6% GEL , 5% SALT, Class C, 1.33, 14.8									
Stage: 1, Displacement, 372, 0, FRESH WATER, , 0, 0									
Stage: 2, Spacer, 20, 0, WATER SPACER, , 0, 0									
Stage: 2, Lead, 0, 1303, 6% GEL , 5% SALT, Class C, 1.99, 12.6									
Stage: 2, Tail, 0, 180, CLASS C, Class C, 1.33, 14.8									
Stage: 2, Displacement, 187, 0, DISPLACEMENT, , 0, 0									
11/15/2014	11741.15	268	4. Intermediate	7	32	P-110	0	8.75	11800
Stage: 1, Spacer, 20, 0, GEL SPACER, , 0, 0									
Stage: 1, Lead, 0, 1210, ECONOCCEM, Class C, 2.02, 12.4									
Stage: 1, Tail, 0, 300, ECONOCCEM, Class C, 1.24, 15.6									
Stage: 1, Displacement, 240, 0, SYSTEM FLUID, , 0, 0									
12/9/2014	16578.94	136	5. Production	4.5	15.1	P-110	0	6	16583
Stage: 1, Spacer, 40, 0, TUNED SPACER, , 0, 0									
Stage: 1, Lead, 0, 85, VERSACCEM, Other, 1.245, 14.4									
Stage: 1, Tail, 0, 425, VERSACCEM, Other, 1.265, 14.4									
Stage: 1, Displacement, 79, 0, KCL, , 0, 0									
Stage: 1, Displacement, 10, 0, H2O, , 0, 0									
Stage: 1, Displacement, 111, 0, OBM, , 0, 0									