

RAILROAD COMMISSION OF TEXAS

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Tracking No.: 43067

Status: Submitted

Oil and Gas Division

API No. **42- 413-32772**

7. RRC District No.

7C

8. RRC Gas ID No.

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat) HOLT RANCH (CONSOLIDATED)		2. LEASE NAME UNIVERSITY "54-2"		9. Well No. 2	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) APPROACH OPERATING LLC			RRC Operator No. 028625		10. County of well site SCHLEICHER
4. ADDRESS ONE RIDGMAR CENTRE 6500 WEST FREEWAY SUITE 800 FORT WORTH, TX 76116-0000					11. Purpose of filing Initial Potential <input checked="" type="checkbox"/> Retest <input type="checkbox"/> Reclass <input type="checkbox"/> Well record only (Explain in remarks) <input type="checkbox"/>
5. Location (Section, Block, and Survey) 2, 54, UL, A-U37			5b. Distance and direction to nearest town in this county. 19 MILES N ELDORADO		
6. If operator has changed within last 60 days, name former operator					
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR			GAS ID or OIL LEASE #		Oil-0 Gas-G
N/A					Well #

13. Pipe Line Connection DCP MIDSTREAM, LP		14. Completion or recompletion date 01/19/2012		15. Any condensate on hand at time of workover or recompletion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		16. Type of Electric or other Log Run. Neutron/Density logs (combo of tools)	
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Section I GAS MEASUREMENT DATA											
Date of Test		Gas Measurement Method (Check One)						Gas produced during test			
02/24/2012		Orifice Meter <input checked="" type="checkbox"/>	Flange Taps <input type="checkbox"/>	Pipe Taps <input checked="" type="checkbox"/>	Positive Choke <input type="checkbox"/>	Orifice Vent Meter <input type="checkbox"/>	Pitot Tube <input type="checkbox"/>	Critical-flow Prover <input type="checkbox"/>	134 MCF		
Run Size	Line Size	Orif. or Choke Size	24 hr Coeff. Orif. or Choke	Static Pm or Choke Press	Diff h _w	Flow Temp. ° F	Temp. Factor F _{tf}	Gravity Factor F _g	Compress Factor F _{pv}	Volume MCF/DAY	
1	2.067	1.375	13.505	65.0	60.0	60.0	1.0	0.8642	1.0034	134.0	
2											
3											
4											

Section II FIELD DATA AND PRESSURE CALCULATIONS					
Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
0.59	37.1 Deg. API	134000 CF/Bbl	G _{mix} = 0.794	130.0 ° F	186.0 ° F @ 7600.0 (Depth)
$D_{eff}^{8/3} = \sqrt{T_f} = \sqrt{\quad} = \quad$		$\sqrt{GL} = \sqrt{\quad} = \quad$			
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} = \quad$		$\frac{\sqrt{GL}}{C} = \quad = \quad$			

Run No.	Time of Run Min	Choke Size	Wellhead Press. PSIA P _w	Wellhead Flow Temp ° F	P _w ² (Thousands)	R	R ² (Thousands)	P ₁	P _w / P ₁
Shut-in	4320		1780	74.0					
1	4320	18/64	350	78.0					
2									
3									
4									
Run No.	F	K	S = 1/Z	E ^{ks}	P _f and P _s	P _f ² and P _s ² (Thousands)	P _f ² - P _s ² (Thousands)	Angle of Slope	
Shut-in								θ	
1								n	
2								Absolute Open Flow	
3							 MCF/DAY	
4									

WELL TESTERS CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

APPROACH OPERATING LLC(028625)

Signature: Well Tester _____ Name of Company _____ RRC Representative _____

OPERATORS CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I or prepared supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

James Melear _____ **Regulatory Manager** _____ **05/04/2012** _____ Tel: **(817) 989-9000 EXT 2143**
Signature: Operator's representative _____ Title _____ Date _____ A/C _____ Number _____

SECTION III DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input type="checkbox"/>				18. Permit to Drill, Plug Back or Deepen DATE: 09/12/2011 PERMIT NO.: 723902 Rule 37 Exception CASE NO.: Water Injection Permit PERMIT NO.: Salt Water Disposal Permit PERMIT NO.: Other PERMIT NO.:	
19. Notice of Intention to Drill this well was filed in Name of APPROACH OPERATING LLC					
20. Number of producing wells on this lease in this field (reservoir) including this well 2		21. Total number of acres in this lease 663.5			
22. Date Plug Back, Deepening, Workover or Drilling Operations: Commenced: 10/20/2011 Completed: 10/25/2011		23. Distance to nearest well, Same Lease & Reservoir 1485.0			

24. Location of well, relative to nearest lease boundaries
 835.0 Feet From West Line and 1980.0 Feet from North Line of the UNIVERSITY "54-2" Lease

25. Elevation (DF, RKB, RT, GR ETC.)
2550 GL

26. Was directional survey made other than inclination (Form W-12)? Yes No

27. Top of Pay 3609	28. Total Depth 7500	29. P. B. Depth 6770	30. Surface Casing Determined by: Field Rules <input type="checkbox"/>	Recommendation of T.D.W.R. <input checked="" type="checkbox"/> Railroad Commission (Special) <input type="checkbox"/>	Dt. of Letter 09/20/2011
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31. Is well multiple completion? Yes No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil-0 Gas-G	Well #
N/A			

33. Intervals Drilled by: Rotary Tools <input checked="" type="checkbox"/> Cable Tools	34. Name of Drilling Contractor NABORS	35. Is Cementing Affidavit Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	32.0 24.0	1891		C 820	12 1/4	SURFACE	1585.0
5 1/2	17.0	6880		H 765	7 7/8	1380	1239.0

37. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

38. TUBING RECORD

38. TUBING RECORD			39. Producing Interval (this completion) Indicate depth of perforation or open hole	
Size	Depth Set	Packer Set	From	To
2 3/8	6832	4772	4825	5070
			5171	5316
			5356	5475
			5475	5475
			5729	5729
			5948	6161
			6392	6551

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.	
Depth Interval	Amount and Kind of Material Used
4825.0 - 5070.0	57 BBLS 15% HCL & FRAC W/ 7,294 BBLS S/W & 277,634 # 30/50 & 100 MESH PROP
5171.0 - 5316.0	78 BBLS 15% HCL & FRAC W/ 4,226 BBLS S/W & 160,924 # 30/50 & 100 MESH PROP
5356.0 - 5475.0	95 BBLS 15% HCL & FRAC W/ 3,128 BBLS S/W & 98,298 # 30/50 & 100 MESH PROP
5475.0 - 5475.0	64 BBLS 15% HCL & FRAC W/ 4,476 BBLS S/W & 183,665 # 30/50 & 100 MESH PROP
5729.0 - 5729.0	71 BBLS 15% HCL & FRAC W/ 3,886 BBLS S/W & 123,519 # 30/50 & 100 MESH PROP
5948.0 - 6161.0	89 BBLS 15% HCL & FRAC W/ 6,545 BBLS S/W & 262,796 # 30/50 & 100 MESH PROP
6392.0 - 6551.0	73 BBLS 15% HCL & FRAC W/ 4,026 BBLS S/W & 105,650 # 30/50 & 100 MESH PROP

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)			
Formations	Depth	Formations	Depth
CLEARFORK	3609.0		
DEAN	5070.0		
WOLFCAMP	7002.0		
REMARKS: W-12, W-15'S, L-1 SUBMITTED WITH WRO FILING 03/12/2012 WRO TRACKING #43382 WAS SUBMITTED			
AS A W-2. WELL TESTED AS A STATUTORY GAS WELL. GOR >100,000:1. W-12 & W-15'S FILED WITH WRO			
04/24/2012. THAT COMPLETION WILL BE DELETED SO I AM ATTACHING TO THIS COMPLETION,			

Cementer: Fill in shaded areas.
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) APROACH OPERATING LLC.		2. RRC Operator No. 028625	3. RRC District No. 7C	4. County of Well Site SCHLEICHER
5. Field Name (Wildcat or exactly as shown on RRC Records) Hott Ranch (consolidated)			6. API No. 413-32772	7. Drilling Permit No. 723902
8. Lease Name UNIVERSITY 54-2		9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. 2

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		10/22/11					
13. • Drilled Hole Size		12 1/4					
• Est. % wash or hole enlargement		-					
14. Size of casing (in. O.D.)		8 5/8					
15. Top of liner (ft.)		-					
16. Setting depth (ft.)		1891					
17. Number of centralizers used		11					
18. Hrs. Waiting on cement before drill-out		12					
1 st Slurry	19. API cement used: No. of sacks ▶	550					
	Class ▶	"C"					
	Additives ▶	#22					
2 nd Slurry	No. of sacks ▶	250					
	Class ▶	"C"					
	Additives ▶	#22					
3 rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	1248					
	Height (ft.) ▶	3023					
2nd	Volume (cu. ft.) ▶	337					
	Height (ft.) ▶	816					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	1585					
	Height (ft.) ▶	3839					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		YES					

Remark: 1st slurry - "C" 65/35 POZ + 6% Gel + 3% SMS + 2% CACL2 + 3# A-10 + 5# KOLSEAL
+ .25# CELLOFLAKE + .01% STATIC FREE
2nd slurry - "C" + 2% CACL2 + 2 PPS KOLSEAL + .01% KOLSEAL
CIRCULATED 89 SACKS OF LEAD @ 12.2 PPG TOP OUT WITH 20 SACKS OF CNEAT

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this Certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my Supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

JERRY LAWLER, Service Supervisor

Name and title of cementer's representative

BJ Services Company

Cementing Company

Signature

P.O. Box 1135

Address

Eldorado Texas 76936
City, State, Zip Code

(325) 853-2553
Tel.: Area Code Number

10/22/11
Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Ann Bordett Wilky
Typed or printed name of operator's representative

Reg. Consultant
Title

Signature

Address

Instructions to Form W-15, Cementing Report

6500 West Freeway, Ste 8007, Worth TX 76116
City, State, Zip Code

817-989-9000
Tel.: Area Code Number

2/28/12
Date: mo. day yr.

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

- A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following.
- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rates;
 - Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
 - Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. Where to file. The appropriate Commission District Office for the county in which the well is located.
- C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.
- D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In Non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.
- E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.
- F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).
- G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three foot below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations, Cementing companies, service companies or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas.
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) Approach Operating, LLC	2. RRC Operator No. 028625	3. RRC District No. 7c	4. County of Well Site SCHLEICHER
5. Field Name (Wildcat or exactly as shown on RRC Records) Holt Ranch (consolidated)		6. API No. 413-32772	7. Drilling Permit No. 723902
8. Lease Name UNIVERSITY 54-2	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. #2

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date							
13. • Drilled Hole Size							
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)							
15. Top of liner (ft.)							
16. Setting depth (ft.)							
17. Number of centralizers used							
18. Hrs. Waiting on cement before drill-out							
1 st Slurry	19. API cement used: No. of sacks ▶						
	Class ▶						
	Additives ▶						
2 nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3 rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶						
	Height (ft.) ▶						
2nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
21. Was cement circulated to ground surface (or bottom of cellar) outside casing ?							
Remark:							

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date	10/26							
24. Size of hole or pipe plugged (in.)	7.875							
25. Depth to bottom of tubing or drill pipe (ft.)	7490							
26. Sacks of cement used (each plug)	220							
27. Slurry volume pumped (cu. ft.)	233							
28. Calculated top of plug (ft.)	6900							
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)	16.4							
31. Type cement	H							

CEMENTER'S CERTIFICATE: I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this Certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my Supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Robert J Carles, Service Supervisor

Name and title of cementer's representative

BJ Services Company

Cementing Company

Signature

P.O. Box 1135

Address

Eldorado
City,

Texas
State, **76936**
Zip Code

(325) 853-2553
Tel: Area Code Number

10/26/2011
Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form Are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Ann Bordette Wiley
Typed or printed name of operator's representative

Reg. Consultant
Title

Ann Bordette Wiley
Signature

6500 West Freeway, Ste 800 Ft. Worth TX 76116 817-989-9000 2/28/12
Address City, State, Zip Code Tel.: Area Code Number Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

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 - Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
 - Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. Where to file. The appropriate Commission District Office for the county in which the well is located.
- C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.
- D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In Non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.
- E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.
- F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).
- G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three foot below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations, Cementing companies, service companies or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas.
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) APPROACH OPERATING, LLC		2. RRC Operator No. 028625	3. RRC District No. 7C	4. County of Well Site SCHLEICHER
5. Field Name (Wildcat or exactly as shown on RRC Records) Holt Ranch (Consolidated)			6. API No. 413-32772	7. Drilling Permit No. 723902
8. Lease Name UNIVERSITY 54-2		9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. 2

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				10-27-11			
13. • Drilled Hole Size				7 7/8			
• Est. % wash or hole enlargement				-			
14. Size of casing (in. O.D.)				5 1/2			
15. Top of liner (ft.)				-			
16. Setting depth (ft.)				6880			
17. Number of centralizers used				21			
18. Hrs. Waiting on cement before drill-out				-			
1 st Slurry	19. API cement used: No. of sacks ▶			765			
	Class ▶			Super H			
	Additives ▶			#22			
2 nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3 rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1 st	20. Slurry pumped: Volume (cu. ft.) ▶			1239			
	Height (ft.) ▶			7150			
2 nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3 rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶			1239			
	Height (ft.) ▶			7150			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing ?				NO			
Remark: SLURRY – Super H(61:15:11)H:Poz:CSE2+.6%FL-52+.6%FL25+.2%SMS+.1%R-21+2.73%Salt(bwow)+2ppsKolSeal							

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)
FOD1296

INCLINATION REPORT (One Copy Must Be Filed With Each Completion Report)		6. RRC District 7C
1. FIELD NAME (as per RRC Records or Wildcat) HOLT RANCH (CONSOLIDATED)	2. LEASE NAME UNIVERSITY 54-20	7. RRC Lease Number. (Oil completions only)
3. OPERATOR APPROACH OPERATING LLC		8. Well Number 2
4. ADDRESS 6500 WEST FREEWAY, STE., 800 FORT WORTH, TX 76116		9. RRC Identification Number (Gas completions only)
5. LOCATION (Section, Block, and Survey) SEC 20 BLK 54 UNIVERSITY LANDS		10. County SCHLEICHER



RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle x100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
500	500	0.45	0.79	3.95	3.95
1000	500	0.22	0.38	1.90	5.85
1500	500	0.50	0.87	4.35	10.20
2000	500	0.45	0.79	3.95	14.15
3000	1,000	0.59	1.03	10.30	24.45
4000	1,000	0.51	0.89	8.90	33.35
5000	1,000	0.67	1.17	11.70	45.05
6000	1,000	0.73	1.27	12.70	57.75
7000	1,000	2.12	3.70	37.00	94.75

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? yes no
18. Accumulative total displacement of well bore at total depth of 7000 feet = 94.75 feet.
- *19. Inclination measurements were made in - Tubing Casing Open hole Drill Pipe
20. Distance from surface location of well to the nearest lease line..... 660 feet.
21. Minimum distance to lease line as prescribed by field rules..... 330 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO

(If the answer to the above question is "yes," attach written explanation of the circumstances.)

<p>INCLINATION DATA CERTIFICATION</p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.</p> <p> Signature of Authorized Representative MATT SPEER - OPERATING ENGINEER Name of Person and Title (type or print) NABORS DRILLING USA, LP Name of Company Telephone: 281-874-0035 Area Code</p>	<p>OPERATOR CERTIFICATION</p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.</p> <p> Signature of Authorized Representative JAMES C. MELEAR REGULATORY MANAGER Name of Person and Title (type or print) APPROACH OPERATING LLC Operator Telephone: (817) 546-8483 Area Code</p>
---	---

Railroad Commission Use Only:

Approved By: _____ Title: _____ Date: _____

* Designates items certified by company that conducted the inclination surveys.

Tracking No.: 43067

This facsimile L-1 was generated electronically from data submitted to the RRC.

Instructions

When to File Form L-1:

- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period for confidentiality has not yet expired.

When is Form L-1 NOT required:

- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas or geothermal wells
- with Form W-3 for plugging of other than a dry hole

Where to File Form L-1:

- with the appropriate Commission district office

Filling out Form L-1:

- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

Type of log required:

- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

SECTION I. IDENTIFICATION

Operator Name: APPROACH OPERATING LLC	District No. 7C	Completion Date: 01/19/2012
Field Name HOLT RANCH (CONSOLIDATED)	Drilling Permit No. 723902	
Lease Name UNIVERSITY "54-2"	Lease/ID No.	Well No. 2
County SCHLEICHER	API No. 42- 413-32772	

SECTION II. LOG STATUS (Complete either A or B)

 A. BASIC ELECTRIC LOG NOT RUN

 B. BASIC ELECTRIC LOG RUN. (Select one)

1. Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.
2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).
4. Log attached to (select one):

(a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: _____

Check here if attached log is being submitted after being held confidential.

(b) Form P-7, Application for Discovery Allowable and New Field Designation.

(c) Form W-4, Application for Multiple Completion:

Lease or ID No(s). _____

Well No(s). _____

James Melear

Signature

Name (print)

Regulatory Manager

Title

(817) 989-9000 EXT 2143

Phone

05/04/2012

Date

-FOR RAILROAD COMMISSION USE ONLY-

HALLIBURTON

SPECTRAL DENSITY DUAL SPACED NEUTRON

COMPANY APPROACH OPERATING, LLC.	WELL UNIVERSITY "54-2" NO. 2	FIELD HOLT RANCH (CONSOLIDATED)	COUNTY SCHLEICHER	STATE TX	COMPANY	APPROACH OPERATING, LLC.		
					WELL	UNIVERSITY "54-2" NO. 2		
					FIELD	HOLT RANCH (CONSOLIDATED)		
					COUNTY	SCHLEICHER	STATE	TX
					API No	42-413-32772		Other Services
					Location	1980' FNL & 835' FWL SECTION 2, BLOCK 54 UNIVERSITY LAND SURVEY ABSTRACT U37		DLT/MSFL
Permanent Datum	GL				Elev.	2550.0 ft	Elev. KB	2567.0 ft
Log measured from	KB					17.0 ft above perm. Datum	D.F.	2566.0 ft
Drilling measured from	KB						G.L.	2550.0 ft
Date	26-Oct-11							
Run No.	ONE							
Depth - Driller	7500.00 ft							
Depth - Logger	7499.0 ft							
Bottom - Logged Interval	7448.0 ft							
Top - Logged Interval	200.0 ft							
Casing - Driller	8.625 in	@	1935.0 ft		@		@	
Casing - Logger	1892.0 ft							
Bit Size	7.875 in				@		@	
Type Fluid In Hole	BRINE							
Density	Viscosity	9.7 ppg	29.00 s/qt					
PH	Fluid Loss	9.00 pH	16.0 cpm					
Source of Sample	FLOWLINE							
Rm @ Meas. Temperature	0.055 ohmm	@	76.80 degF		@		@	
Rmf @ Meas. Temperature	0.05 ohmm	@	76.80 degF		@		@	
Rmc @ Meas. Temperature	0.069 ohmm	@	76.80 degF		@		@	
Source Rmf	Rmc	MEAS	MEAS					
Rm @ BHT	0.03 ohmm	@	168.0 degF		@		@	
Time Since Circulation	5.0 hr							
Time on Bottom	26-Oct-11 09:29							
Max. Rec. Temperature	168.0 degF	@	7499.0 ft		@		@	
Equipment	Location	10549591	ODESSA, TX					
Recorded By	STEPHEN MCDONALD		MARIO GONZALEZ					
Witnessed By	TED OLDHAM		ISMAEL ARREOLA					

CERTIFICATE OF COMPLIANCE
 AND TRANSPORTATION AUTHORITY

This facsimile P-4 was generated electronically from data submitted to the RRC.
 A certification of the automated data is available in the RRC's Austin office.

Tracking No.: 43067

1. Field name exactly as shown on proration schedule HOLT RANCH (CONSOLIDATED)		2. Lease name as shown on proration schedule UNIVERSITY "54-2"					
3. Current operator name exactly as shown on P-5 Organization Report APPROACH OPERATING LLC		4. Operator P-5 no. 028625	5. Oil Lse/Gas ID no.	6. County SCHLEICHER	7. RRC district 7C		
8. Operator address including city, state, and zip code ONE RIDGMAR CENTRE 6500 WEST FREEWAY SUITE 800 FORT WORTH, TX 76116		9. Well no(s) (see instruction E) 2			10. Classification <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)		
11. Effective Date 01/19/2012							
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G)							
a. Change of: <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code							
<input type="checkbox"/> field name from _____							
<input type="checkbox"/> lease name from _____							
-- OR --							
b. New RRC Number for: <input type="checkbox"/> oil lease <input checked="" type="checkbox"/> gas well <input type="checkbox"/> other well (specify) _____							
Due to: <input checked="" type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil							
<input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)							
13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). (See instruction G).							
Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left (Attach an additional sheet in same format if more space is needed)			Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X	X	DCP MIDSTREAM, LP(195918)			0001	100.0	
14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G).							
Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First (Attach an additional sheet in same format if more space is needed)							Percent of Take
BML, INC. B(077542)							30.0
APPROACH SERVICES, LLC(028627)							30.0
EASTEX CRUDE COMPANY(239232)							20.0
SHELL TRADING (US) COMPANY(774715)							20.0
RRC USE ONLY: Reviewer's initials: _____ Approval date: _____							
15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.							
Name of Previous Operator _____				Signature _____			
Name (print) _____				<input type="checkbox"/> Authorized Employee of previous operator		<input type="checkbox"/> Authorized agent of previous operator (see instruction G)	
Title _____				Date _____		Phone with area code _____	
16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.							
Name (print) Regulatory Manager				Signature James Melear			
Title jmelear@approachresources.com				<input type="checkbox"/> Authorized Employee of current operator		<input type="checkbox"/> Authorized agent of current operator (see instruction G)	
E-mail Address (optional)				Date 05/04/2012		Phone with area code (817) 989-9000 EXT 2143	

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

GAS WELL
CLASSIFICATION REPORT

Form G-5

Tracking No.: 43067

This facsimile G-5 was generated electronically from data submitted to the RRC.

1. OPERATOR NAME (Exactly as shown on Form P5 Organization Report) APPROACH OPERATING LLC		3. RRC DISTRICT NO. 7C	4. OIL LEASE NO OR GAS WELL ID NO.
2. MAILING ADDRESS ONE RIDGMAR CENTRE 6500 WEST FREEWAY SUITE 800 FORT WORTH, TX 76116		5. WELL NO. 2	6. API NO. 42- 413-32772
		7. COUNTY OF WELL SITE SCHLEICHER	
8. FIELD NAME (as per RRC Records) HOLT RANCH (CONSOLIDATED)		9. LEASE NAME UNIVERSITY "54-2"	
10. LOCATION (Section, Block and Survey) 2 , 54 , UL , A-U37		11. PIPELINE CONNECTION OR USE OF GAS DCP MIDSTREAM, LP	
PRODUCTION TEST AT RATE ELECTED BY OPERATOR (data on 24-hour basis)		A.S.T.M. DISTILLATION OF LIQUID SAMPLE. Distillation test is required for gas wells ONLY if the producing gas-liquid hydrocarbon ratio is less than 100,000 CF/barrel.	
A. Date of Test <u>02/24/2012</u>		Date Liquid Sample Obtained _____	
B. Gas Volume <u>134.0</u> (Mcf)		Where Obtained: <input type="checkbox"/> Separator <input type="checkbox"/> Stock Tank	
C. Oil or Condensate Volume <u>1.0</u> (Bbl)		% Over Temp. (deg. F)	
D. Water Volume _____ (Bbl)		Initial Boiling Temp. _____ 60 _____	
E. Gas/Liquid Hydrocarbon Ratio <u>134000</u> (Cf/Bbl)		10 _____ 70 _____	
F. Flowing Tubing Pressure <u>350</u> (psia)		20 _____ 80 _____	
G. Choke Size <u>18/64</u> (in.)		30 _____ 90 _____	
H. Casing Pressure _____ (psia)		40 _____ 95 _____	
I. Shut-in Wellhead Pressure-- Tubing <u>1780</u> (psia)		50 _____ End Point _____	
J. Separator Operating Pressure <u>65.0</u> (psia)		Total Recovery _____ percent	
K. Color of Stock Tank Liquid <u>Straw</u>		Residue _____ percent	
L. Gravity of Separator Liquid _____ °API		Loss _____ percent	
M. Gravity of Stock Tank Liquid <u>37.1</u> °API			
N. Specific Gravity of the Gas (Air = 1) <u>0.59</u>			
<p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete to the best of my knowledge.</p> <p><u>05/04/2012</u> DATE</p>		RRC USE ONLY	
		NAME (Type or Print) <u>James Melear</u>	
		SIGNATURE <u>Regulatory Manager</u>	
		TITLE _____	
CONTACT PERSON		(817) 989-9000 EXT 2143 PHONE NUMBER	

Tracking No.: 43067

OPERATOR NAME AND ADDRESS including city, state and zip
APPROACH OPERATING LLC
 ONE RIDGMAR CENTRE
 6500 WEST FREEWAY SUITE 800
 FORT WORTH, TX 76116

GAS WELL STATUS REPORT

RAILROAD COMMISSION OF TEXAS
 Oil and Gas Division
 P.O. Box 12967
 Austin, Texas 78711-2967

*This facsimile G-10 was generated electronically
 from data submitted to the RRC.*

Reason for Filing	Operator P-5 Organization No.	RRC Dist. No.	G-10
<input type="checkbox"/> Survey <input checked="" type="checkbox"/> Initial Test	028625	7C	
<input type="checkbox"/> Retest <input type="checkbox"/> Correction	Test Period: Due Date: Effective Date:		

FIELD NAME * LEASE NAME	RRC IDENT NO.	DATE TESTED MO/DAY/YR	GAS PRODUCED MCF/DAY **	CONDENSATE PRODUCED	WATER PROD BBL/DAY	***SIWH PRESSURE PSIA
	WELL NO.	MARK X FOR SHUT-IN WELL	GAS SPEC. GRAVITY	CONDENSATE GRAVITY (API)	X BOTTOMHOLE PRESSURE PSIA	***FLOWING PRESSURE PSIA
HOLT RANCH (CONSOLIDATED)		02/24/2012	134 MCF	1.0 BBL	4.0 BBL	1780
UNIVERSITY "54-2"	2		0.59	37.1		350
			MCF	BBL	BBL	
			MCF	BBL	BBL	
			MCF	BBL	BBL	
			MCF	BBL	BBL	
			MCF	BBL	BBL	
			MCF	BBL	BBL	
			MCF	BBL	BBL	
			MCF	BBL	BBL	

CERTIFICATION: I declare under penalties prescribed in Texas Natural Resources Code, Sec. 91.143, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

APPROACH OPERATING LLC

Signature: JAMES C. MELEAR Title: _____ Phone: (817) 546-8483 Date: 05/04/2012

* AN ASTERISK PREPRINTED ON A SURVEY IDENTIFIES WELL SUBJECT TO COMMINGLING TEST REQUIREMENT
 ** GAS PRODUCTION RATE, IN MCF, IS TO BE REPORTED FULL-WELL STREAM, INCLUDING CONDENSATE
 *** PRESSURE FOR THE TEXAS HUGOTON FIELD IS REPORTED IN PSIG
 X AN 'X' PREPRINTED ON A SURVEY IN THE BOTTOMHOLE PRESSURE BOX INDICATES A BOTTOMHOLE PRESSURE MUST BE REPORTED FOR THE WELL

STATEMENT OF PRODUCTIVITY OF ACREAGE
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 43067

This facsimile P-15 was generated electronically
from data submitted to the RRC.

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the APPROACH OPERATING LLC ,

UNIVERSITY "54-2" , No. 2 ; that such well is
LEASE OPERATOR WELL

completed in the HOLT RANCH (CONSOLIDATED) Field, SCHLEICHER County,

Texas and that the acreage claimed, and assigned to such well for proration purposes as authorized by special rule and as shown on the attached certified plat embraces _____

320.0 acres which can reasonably be considered to be productive of hydrocarbons.

- CERTIFICATE -

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge,

Date 05/04/2012 Signature James Melear

Telephone (817) 989-9000 EXT 2143 Title Regulatory Manager
AREA CODE

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date October 4, 2011

GAU File No.: SC- 4136

***** EXPEDITED APPLICATION *****

API Number 41332776

Attention: LAURA GILMORE

RRC Lease No. 000000

SC_028625_41332776_000000_4136.pdf

--Measured--

710 ft FWL

660 ft FSL

MRL:SECTION

APPROACH OPERATING LLC
ONE RIDGMAR CENTRE
6500 WEST FWY STE 80
FORT WORTH TX 76028

Digital Map Location	
X-coord/Long	<u>100.86740</u>
Y-coord/Lat	<u>30.95760</u>
Datum	<u>83</u>
Zone	<u></u>

P-5# 028625

County SCHLEICHER

Lease & Well No. UNIVERSITY 54-20 #2

Purpose ND

Location SUR-UL, BLK-54, SEC-20, -- [TD=8000], [RRC 7C],


To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Texas Railroad Commission recommends:

The interval from the land surface to 20 feet below the base of Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth of 650 feet.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

If you have any questions, please contact us at 512-463-2741, gau@rrc.state.tx.us, or by mail

Sincerely,


 Digitally signed by Jack Oswalt
 DN: c=US, st=TEXAS, In Austin,
 o=Railroad Commission of Texas,
 cn=Jack Oswalt,
 email=jack.oswalt@rrc.state.tx.us
 Date: 2011.10.04 14:22:01 -0500

Jack M. Oswalt, P.G.

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit
Oil & Gas Division

The seal appearing on this document was authorized by Jack M. Oswalt on 10/4/2011
Note: Alteration of this electronic document will invalidate the digital signature

PRORATION UNIT PLAT

3

2

320 ACRES

APPROACH

University 54-2 2

UNIVERSITY 54

320 ACRES

APPROACH

University 54-2 1

320 ACRES

8

9

APPROACH

University 54-9 1



UNIVERSITY 54-2 2
CROCKETT CO, TX



April 20, 2012