

Henry Petroleum LP
SLCU 4045
Shafter Lake (Clearfork) Field
API #:42-003-39233
Sec. 36, Block 13, University Land Survey
739' FNL 5280' FWL
TD 7000'
Andrews County, Texas
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SPUD DATE: 4-12-04 at 9:00 PM
ROD RIC RIG #10

4-13-04 808' (808') Day 1

Mud Wt. 8.9, Vis 31, pH 8
6 hrs MIRU
9 hrs W/O Fuel
3/4 hr Drilling w/ First Bit
1/4 hr Trip
7 1/2 hrs Drilling w/ Second Bit
1/2 hr Surveys: 3/4° at 208', 1° at 531'.

SPUD 4-12-04 AT 9:00 PM

Notified TRRC at 8:30 AM (Doris Koenig) of intent to spud & drill 12-1/4" surface hole & run 8-5/8" csg & cmt. At 9:00 PM, spud surface hole.

Bit #1, 12-1/4", F27, #MA-8883. In at 0'. Out at 74'. Made 74' in 3/4 hr. Jet size 12, 12, 12.
Bit #2, 12-1/4", 6FX, #MP3703. In at 74'. Made 735' in 7 1/2 hrs. Jet size 12, 12, 12. Pump psi 1300#, SPM 56, Bit Weight All, 100 RPM.

P.O. Drilling

DMC: \$0 CMC: \$0
DC: \$28,034 CC: \$28,034

4-14-04 1630' (821') Day 2

Mud Wt 9, Vis 34, pH 8
9 1/4 hrs Drilling
1 1/4 hr Surveys: 2° at 830', 2-1/4° at 1147', 2-1/2° at 1465', 2° at 1592'.
3/4 hr Circulate
2 1/4 hrs Trip
2 1/2 hrs Run Csg
1 hr Cmt
3 hrs ND
4 hrs WOC

Bit #2, 12-1/4", 6FX, #MP3703. In at 74'. Out at 1630'. Made 1556' in 16 3/4 hrs. Jet size 12, 12, 12. Pump psi 1300#, SPM 56, Bit Weight 55k, 120-130 RPM. Pen rate 88.75 FPH. Mud used: Paper-5.

TD 12-1/4" surface hole to 1630' at 4:15 PM 4-13-04. Circulated. Ran TOTCO. TOOH LD 8" DCs & bit. RU csg crew & ran csg. RU Schlumberger & cmt 8-5/8" csg. 500 sx Lead 35:65 Poz Class "C" w/ 8% gel + 2% CaCl₂ + 1/4 PPS Cello-Flakes/1st 175 sx 12.5#, 1.94 CFPS. Tail w/ 150 sx Class "C" w/ 2% CaCl₂. 14.8#, 1.32 CFPS. Dropped plug. Displaced cmt w/ 101.5 bbls fresh water. Plug down at 11:07 PM. Pressured to 1100 psi. Circulated 101 sx to pit. Bled csg & float held. RD cmt company. Centralizers on Jts #1, 2, 6, 10, 14, 18, 22, 26, 30, 34, & 38 - 11 total.

P.O. NU BOP

DMC: \$0 CMC: \$0
DC: \$43,002 CC: \$71,036

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Casing Detail

38	1580.80'	8-5/8" 24# J-55 STC Csg
1		Insert Float
1	43.43'	8-5/8" 24# J-55 STC Csg
1	1.00'	Texas Pattern Shoe
	1625.23'	
	<u>1.85'</u>	Corr to KB
	1623.38'	

4-15-04 2399' (769') Day 3

Mud Wt. 10, Vis 29, pH 10
 15 1/4 hrs Drilling
 3/4 hr Surveys: 2° at 1788', 3° at 2072', 2° at 2295'
 1 hr Trip
 1 hr Test BOP
 2 hrs Drill Cmt
 4 hrs NU
 Bit #3, 7-7/8", CH-37, #200242. In at 1630'. Made 769' in 15 1/4 hrs. Jet size 13, 13, 13.
 Pump psi 1200#, SPM 56, Bit Weight 10-45-50k, 65-75 RPM. Pen rate 1200 FPH. Mud used: Paper-6, Lime-13.
 P.O. Drilling
 DMC: \$0 CMC: \$0
 DC: \$12,151CC: \$83,187

4-16-04 3540' (1241') Day 4

Mud Wt. 10, Vis 29, pH 11
 22 1/4 hrs Drilling
 1 3/4 hr Surveys: 3° at 2072', 2° at 2295', 2-3/4° at 2581', 2-3/4° at 2834', 1-3/4° at 3087', 1-1/2° at 3375'.
 Bit #3, 7-7/8", CH-37, #200242. In at 1630'. Made 2010' in 37 1/2 hrs. Jet size 13, 13, 13.
 Pump psi 1300#, SPM 56, Bit Weight 10-50k, 65-80 RPM. Pen rate 55.77 FPH. Mud used: Paper-10, Lime-23.
 P.O. Drilling
 DMC: \$0 CMC: \$0
 DC: \$19,938CC: \$103,125

4-17-04 4280' (640') Day 5

Mud Wt. 10, Vis 29, pH 11
 23 1/4 hrs Drilling
 3/4 hr Surveys: 1-3/4° at 3692', 1-1/4° at 3978'.
 Bit #3, 7-7/8", CH-37, #200242. In at 1630'. Made 2650' in 60 3/4 hrs. Jet size 13, 13, 13.
 Pump psi 1400#, SPM 56, Bit Weight 50k, 65 RPM. Pen rate 27.5 FPH. Mud used: Paper-7, Lime-6.
 P.O. Drilling
 DMC: \$0 CMC: \$0
 DC: \$12,330CC: \$115,455

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4-18-04 4950' (670') Day 6
Mud Wt. 10, Vis 29, pH 10
23 3/4 hrs Drilling
1/4 hr Surveys: 1-1/2" at 4455'.
Bit #3, 7-7/8", CH-37, #200242. In at 1630'. Made 3320' in 84 1/2 hrs. Jet size 13, 13, 13.
Pump psi 1450#, SPM 56, Bit Weight 50k, 60-65 RPM. Pen rate 28.2 FPH. Mud used:
Paper-5, Lime-10.
P.O. Drilling
DMC: \$0 CMC: \$0
DC: \$11,083CC: \$126,518

4-19-04 5862' (912") Day 7
Mud Wt. 10, Vis 29, pH 10.5
23 1/4 hrs Drilling
3/4 hr Surveys: 1" at 4933', 3/4" at 5420'.
Bit #3, 7-7/8", CH-37, #200242. In at 1630'. Made 4232' in 107 3/4 hrs. Jet size 13, 13, 13.
Pump psi 1450#, SPM 56, Bit Weight 50-55k, 65 RPM. Pen rate 39.22 FPH. Mud used:
Paper-20, Lime-10.
P.O. Drilling
DMC: \$0 CMC: \$0
DC: \$14,494CC: \$141,012

4-20-04 6120' (258") Day 8
Mud Wt. 10, Vis 29, pH 10
15 1/2 hrs Drilling
1/4 hr Survey: 1" at 5851'.
Bit #3, 7-7/8", CH-37, #200242. In at 1630'. Out at 5889'. Made 4239' in 108 1/4 hrs.
Bit #4, 7-7/8", CH-47, #197128. In at 5889'. Made 251' in 15 1/2 hrs. Jet size 13, 13, 13.
Pump psi 1400#, SPM 56, Bit Weight 50-55k, 60-65 RPM. Pen rate 17 FPH. Mud used:
Paper-5, Lime-5.
P.O. Drilling 14'/hr
DMC: \$0 CMC: \$0
DC: \$6,356 CC: \$147,368

4-21-04 6565' (445') Day 9
Mud Wt. 10, Vis 31, pH 10
23 1/4 hrs Drilling
1/2 hr Survey: 1-1/4" at 6350'.
1/4 hr Service Rig
Bit #4, 7-7/8", CH-47, #197128. In at 5889'. Made 698' in 38 3/4 hrs. Jet size 13, 13, 14.
Pump psi 1450#, SPM 56, Bit Weight 65k, 60-65 RPM. Pen rate 19 FPH. Mud used: Starch-
110, Paper-13, Lime-2.
P.O. Drilling 19'/hr
DMC: \$0 CMC: \$0
DC: \$10,645CC: \$158,013

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4-22-04 7025' TD (460') Day 10

23 ½ hrs Mud Wt. 10, Vls 31, pH 10
 ½ hr Drilling
 Survey: 1-1/2" at 6836'.
 Bit #4, 7-7/8", CH-47, #197128. In at 5869'. Out at 7025'. Made 1607' in 86 1/4 hrs. Jet size 13, 13, 14. Pump psi 1450#, SPM 56, Bit Weight 55k, 65 RPM. Pen rate 19 FPH. Mud used: Paper-9, Lime-5.
 P.O. Drilling 14'/hr
 DMC: \$0 CMC: \$0
 DC: \$7,616 CC: \$185,629

4-23-04 7025' Day 11

Released rig at 12:00 PM on 4-23-04.
 Circulated TOTCO. POOH LD DP & DC. RU Computalog & loggers. Ran a DLL-MSF-SPE-DCN-GR-Caliper from a WL TD 7010' to 7800' & GR to surface. RD loggers. Installed 5-1/2" csg rams. RU csg crew & ran 5-1/2" csg. Ran centralizers on it #1 thru #14 & its #46, 48, 50, 52, 54, 56 & 58. Csg tally TD 7020'. RD csg crew. Circulated for 45 minutes. RU Schlumberger & cmt 1385 sx lead 50:50 Poz Class "C" w/ 8% gel + .2% D-65 + .3% D-13. 1/4 PPS Cello flakes + .2% D-12 (first 300 sx). 1.97 CFPS 10.8 GPS. 486 bbls 12.5#. 275 sx tail Class "C" Neat. 1.33 CFPS. 6.37 GPS, 65 bbls 14.8#. Displaced cmt w/ 165 bbls fresh water. Plugged down at 4:50 AM 4-23-04 w/ 157 sx cmt circulated to pit. NOTE: reciprocated csg while cementing csg stuck 5' off btm after pumping 280 bbls lead cmt. RD cmt company. ND BOP. Set 5-1/2" csg slips w/ 110K pull. Cut off 5-1/2" csg. Flanged up WH. (Doug Smith)
 P.O. RD
 DMC: \$0 CMC: \$0
 DC: \$88,599 CC: \$254,228

Casing Detail

152	6518.92'	J-55 LTC 15.5# Csg
11	464.48'	J-55 LTC 17# Csg
1	1.10'	Float Collar
1	42.68'	J-55 LTC 17# Csg
1	1.20'	Float Shoe
	7028.48'	
	13.00'	Corr. To KB
	7015.48'	KB Set
	12.50'	Corr. To GL
	7002.98'	GL Set

4-24-04 W/O Trucks.

4-25-04 W/O Trucks.

4-26-04 RDMO.

4-27-04 MIRU pumping unit. MIRU pulling unit. Preparing to perf. (Matt Johnson)

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4-28-04 MIRU DDU. Installed WH & NU BOP. Set pipe racks & unloaded 217 jts 2-3/8" 8rd J-55 tbg. RU Gray WL. RIH w/ GR CCL logging tool to 6957'. Logged well from 6957' to 6000'. POOH w/ logging tool. PU & RIH w/ 3-1/8" slick gun & perf'd Fullerton "B" zone at 2 spf from 6868'-6881' (13'). POOH w/ perf gun. PU & RIH w/ 3-1/8" perf gun & perf'd Fullerton "A" zone at 2 spf from 6855'-6865' (10'). POOH w/ perf gun. RD Gray WL. PU & RIH w/ 5-1/2" treating pkr on 206 jts 2-3/8" tbg. Tailed pipe GIH. Left pkr swinging at 6803'. Secured well & SDFN. (R.L. Endicott)
DC: \$6,113 (\$1,440-rig, \$550-BOP, \$2,663-Gray WL, \$910-w/Ford, \$250-forklift, \$300-trucking)
CC: \$260,341

4-29-04 SICIP 1200#. Opened well & flowed well down to pit. No show of oil, water & gas. RU Cudd Acid. RIH w/ 3 jts tbg & put EOT at 6902'. Pumped & spotted 3 bbls 15% acid across perfs. PUH & set pkr at 6803'. Let acid soak for 30 minutes. Started pumping to break down formation. Pressured to 1500#. SD. Consulted w/ Midland office. New max pressure 3000#. Broke down formation at 2500#, back to 1600#. Resumed pumping at 1/2 bpm & pressured coming up to 2200#. SD. Opened by-pass on pkr. Resumed pumping at 1 bpm at 2100#. Pumped a total of 28 bbls acid & flushed w/ 28 bbls fresh water. ISIP 2140#. 15 min 1751#. Left well SI for 30 minutes. Opened well to pit & started flowing well down. Started getting oil & gas cut after btms up on tbg. Flowed well back for 2 1/2 hrs. 15 minutes SITP was 475#. Bled pressure off. Opened by-pass on pkr & pumped 150 bbls 10# brine to kill well. RD Cudd. Released pkr & POOH w/ tbg & pkr. RU Gray WL. RIH w/ 3-1/8" perf guns & perd 2 spf, 120° phasing as follows: 6145'-6182', 6648'-6680', 6872'-6880', 6782'-6794', 6804'-6836'. Made a total of 7 gun runs. RD Gray WL. PU 5-1/2" RBP & 5-1/2" treating pkr. RIH to 1846'. SD. Secured well. Too dark to finish RIH (driller said he couldn't see derrick man). (R. L. Endicott)
DC: \$10,205 (\$2,240-rig, \$5,212-Gray WL, \$1,466-Pool, \$658-w/ Ford, \$629-Butch's Anchor)
CC: \$270,546

4-30-04 SI pressure 800#. Opened well. Flowed well down to pit oil, gas & water. Finished RIH w/ tbg, RBP & pkr. Tried to set RBP at 6845'. Would not set. Circulated wellbore w/ 110 bbls 10# brine. Got RBP to set at 6845'. PUH to 6836' & spot 3 bbls acid w/ 26 bbls 10# brine. PUH w/ pkr to 6770' & let acid soak for 30 minutes. Set pkr. Acidized perfs from 6782'-6836' at 1.8 bpm at 2150# w/ 50 bbls 15% Hcl & flushed w/ 27 bbls 10# brine. SD. ISIP 1750# for 15 minutes. SITP 1278#. LWSI for 30 minutes. Opened well & flowed well down. Good show of oil & gas. Circulated 50 bbls 10# brine to kill well. Released pkr & RIH. Released RBP. PU to 6700' & set RBP. PUH to 6880' & spot 3 bbls acid w/ 25 bbls 10# brine. Pulled pkr up hole to 6810' & let acid soak for 30 minutes. Set pkr. Acidized perfs from 6648'-6680' at 2.1 bpm at 2200# w/ 24 bbls 15% Hcl & flushed w/ 27 bbls 10# brine. SD. ISIP 1760#. 15 minute SITP 1580#. Left well SI for 30 minutes. Opened well & flowed well down. Good show of oil & gas. Circulated 35 bbls 10# brine to kill well. Unset pkr & RIH & released RBP. Pulled up to 6200' & set RBP. PUH to 6185' & spot 3 bbls acid w/ 24 bbls 10# brine. Pulled pkr up hole to 6117' & let acid soak for 30 minutes. Set pkr. Acidized perfs from 6145'-6182' at 3 bpm at 2000# w/ 42 bbls of 15% Hcl acid. SD ISIP 730#. 10 min SITP 663#. Left well SION. RD Cudd. NOTE: 10# brine never killed well during acid jobs - well was always flowing back. Secured well & SDFN. (R.L. Endicott)
DC: \$12,533 (\$2,222-rig, \$1,729-Pool, \$8,245-Cudd, \$337-w/Ford)
CC: \$283,079

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5-1-04 Opened well. Flowed well down to pit. Hung well on 320 Lufkin Mack II pumping unit. Waited on field power to come back on. Hooked up flowline. Put well to pumping at 10:30 a.m. down flowline to tester at Batt #2. Too windy to RD WSU. Sent crew home. (R.L. Endicott)
 DC: \$ 1,066 (\$856-rig cost, \$210-S&S gang)
 CC: \$288,032

5-2-04 Well pumped 60 BO & 53 BW in 24 hours. Rig still on well. RD Monday morning. (R.L. Endicott)

5-3-04 Well pumped 64 BO & 54 BW in 24 hours. Released rig. RDMO. (R.L. Endicott)
 DC: \$ 292 (\$292 rig cost)
 CC: \$288,324

5-1/2" 15.5# & 17# csg. PBTD=6957', Perf's OA=6145'-6881'.

<u>Rod String:</u>		
	24'	2" X 1-1/4" X 24' pump #HPP41
1	4'	7/8" X 4' Guided Sub
175	4375'	3/4" new KD rods
88	2200'	7/8" new KD rods
1	4'	7/8" X 4' KD sub
	<u>8807'</u>	

<u>Tubing Detail:</u>		
	12.00'	KB
185	6088.10'	2-3/8" 8rd YB tbg
	2.80'	5-1/2" X 2-3/8" TAC
15	493.20'	2-3/8" 8rd YB tbg
1	31.46'	2-3/8" 8rd IPC tbg
1	<u>1.10'</u>	SN
	<u>6638.66'</u>	

Weatherford PU Services	\$18,286.23	Repair gearbox, Move & set PU
Production Specialties	\$ 1,587.48	3" flowline & connection
S&S Roustabout	\$ 710.99	Flowline & pit fence repairs
Fitts Electric	\$ 3,845.09	Construct power lines to location
Fitts Electric	<u>\$ 6153.97</u>	Transformers, run service, motor, sheave, hub & panel
	\$28,583.76	

217 lbs 2-3/8" tbg	Invoiced sep.
285 Rods (TRC)	Invoiced sep.
Prod Spec.	Invoiced sep.

5-4-04 New cost to date: \$316,608 (R.L. Endicott)

5-4-04 Pumped 37 BO & 276 BW. Weatherford PU services moved pumping unit stroke from MH to LH of 144'. (R.L. Endicott)

5-6-04 P 28 BO & 297 BW.

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5-9-04 P 28 BO & 224 BW. WH sample shows less oil.

5-10-04 P 0 BO & 214 BW. Heavy oil mist out of csg.

5-11-04 P 41 BO & 202 BW.

5-12-04 No test.

5-13-04 No test.

5-15-04 P 30 BO & 222 BW.

5-17-04 Cost to date: \$335,437.09

5-18-04 1716' FL FS. 4922' PS.

5-19-04 P 41 BO & 200 BW.

5-20-04 P 41 BO & 192 BW.

5-21-04 P 39 BO & 183 BW.

5-22-04 P 44 BO & 180 BW.

5-23-04 P 50 BO & 160 BW.

5-27-04 P 50 BO & 150 BW.