

GEORGE FTZ #6  
Gackle Prospect  
Lea County, New Mexico

LOCATION:  
PROSPECT: Gackle  
COUNTY: Lea, New Mexico  
CONTRACTOR: Cactus Drilling Company  
PROPOSED TD:  
SPUD DATE: 2-11-86, 5:30 PM

EXAMINER CATANACH	
OIL CONSERVATION DIVISION	
HCW	EXHIBIT NO. 3
CASE NO. 8894	

2-12-86

Initial Report

WOC, red bed @ 447'. Made 447' in 24 hrs. MW 8.8, vis 38, pH 7.5, Chl 3000. Mud used last 24 hrs - 97 FW gel, 4 lime, 10 paper. PP 1200 psi, 5" liners, 14" stroke, 64 SPM. Dev - 447' @ 1°. BHA - bit, sub, 15-6 1/4" DC's, WOB 30, RPM 120. Bit #1, 12 1/4" retip, in @ 0', made 447' in 5 1/2 hrs, 5-5-in, 3-11.

- 6 1/2 hrs - Move in rig up Cactus Crilling Compant Rig #62.
- 2 hrs - WO mud.
- 1 1/2 hrs - Mix spud mud.
- 1 hr - Repairs to mud pump.
- 2 hrs - Drilling 12 1/4: hole. Spud @ 5:30 PM 2-11-86 Texas time.
- 1/2 hr - Work tight hole @ 180'.
- 3 1/2 hrs - Drilling. Reached 447' at 11:30 PM 2-11-86.
- 1/2 hr - Drop totco.
- 1 hr - Circ & TOOH w/ bit.
- 1 3/4 hrs - RU & run 8 5/8" surface csg.
- 1 1/2 hrs - Circ thru csg w/ rig pump.
- 1 hr - RU Halliburton & cmt.
- 1 1/4 hrs - WOC. Order 1" tbg for backside job.

CASING & CEMENTING DETAIL

1 - 8 5/8" Halliburton Type "M" Guide Shoe	1.00'
1 - Jt 8 5/8", J-55, ST & C csg	41.78'
1 - 8 5/8" Halliburton Float Collar	1.00'
10 - Jts 8 5/8", 24#, J-55, ST & C csg	408.80'
Total 8 5/8" csg on elevators	452.58'
Csg above RKB	-5.58'
Csg landed depth RKB	447.00'

Ran 3 centralizers.

Halliburton cmted w/ 280 sx Class "C" w/ 2% CaCl. Dropped plug & displaced w/ 26 bbls fresh water. Plug down at 5:15 AM 2-12-86. Had good circ throughout cmt operation but did not circ cmt to surface. Notified NMOCD but did not have witness. Will run 1" tbg down 8 5/8" x 12 1/4" annulus, tag top of cement, and cement to surface.

DC \$ 30,000. TCTD \$ 30,000.  
(includes location, damages, csg & cmt)

2-13-86

Drilling, red bed & anhyd @ 963'. Made 516' in 24 hrs. MW 10 brine water, vis 29, CHL 170,000. Mud used last 24 hrs - 5 paper. PP 1400 psi, 5" liners, 14" stroke, 64 SPM. Dev - 947' @ 1/2°. BHA - bit, sub, 20-6 1/4" DC's, WOB 35, RPM 70. Bit #2, 7 7/8" Walker 53CF McDonald, in @ 447', made 516' in 5 3/4 hrs, 3-11.

- 3 hrs - WOC. Wait on 1" OD tbg to do backside cmt job.
- 1 1/2 hrs - Run 1" tbg down 8 5/8" csg x 12 1/4 hole annulus. Tag top of cement at 156'. Halliburton cmted w/ 200 sx Class "C" neat cement thru 1" tbg. Circ 20 sx to surface. NMOCD notified but did not witness. Cmt job complete at 10:30 AM 2-12-86. POOH & LD 1" tbg.
- 2 1/2 hrs - WOC.
- 4 1/2 hrs - Cut off 8 5/8" csg. Weld on 8 5/8" SOW x 10" 3000 psi Larkin Fig 92 Bradenhead. NU 10" 3000 psi BOP.

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- 4 1/2 hrs - WOC.  
1/2 hr - Pressure test blind rams in BOP to 1000 psi, held OK.  
1/2 hrs - GIH w/ 7 7/8" bit to float collar at 403'.  
1/2 hr - Pressure test 8 5/8" csg & pipe rams in BOP to 1000 psi, held OK.  
3/4 hr - Drill plug, float collar & 43' of cmt.  
5 3/4 hrs - Drilling new formation.  
1/4 hr - Survey.

DC \$ 16,000. TCTD \$ 46,000.  
(includes backside cement job)

2-14-86

Drilling, salt & anhyd @ 2760'. Made 1797' in 24 hrs. MW 10# brine water, vis 29, pH 7.5, CHL 180,000. Mud used last 24 hrs - 9 paper, 10 lime. PP 1400 psi, 5" liners, 14" stroke, 64 SPM. Dev - 1441' @ 3/4°, 1950' @ 1 1/4°, 2412' @ 1 1/2°. BHA - bit, sub, 20-6 1/2" DC's, WOB 35, RPM 80. Bit #3, 7 7/8" Walker McDonald 53CF, in @ 447', made 2313' in 28 3/4 hrs, 3-11.

- 23 hrs - Drilling.  
1 hr - Surveys.

NOTE: Started mud up at 2700'. Started catching samples at 2700'.

DC \$ 28,000. TCTD \$ 74,000.

2-15-86

Drilling, anhyd @ 3205'. Made 445' in 24 hrs. MW 10.2, vis 33, FL 15.2, pH 8.5, FC 2/32, PV 4, YP 4, 3% solids, 97% water, CHL 176,000. Mud used last 24 hrs - 30 starch, 85 salt gel, 8 caustic, 8 soda ash, 5 paper. PP 1400 psi, 5" liners, 14" stroke, 64 SPM. Dev - 3205' @ 2 1/41. BHA - bit, sub, 20-6 1/2" DCs, WOB 35, RPM 80. Bit #2, 7 7/8" Walker McDonald 53CF, in @ 447', made 2758' in 51 3/4 hrs, 3-11.

- 2 3/4 hrs - Drilling.  
1/4 hr - Survey.  
6 3/4 hrs - Drilling.  
1/4 hr - Pump soft line down DP at 3035'.  
1/4 hr - POOH w/ DP. Found hole in DP 53 jts above DCs. LD jt w/ hole. PU another jt.  
1/4 hr - GIH w/ DP.  
13 1/2 hrs - Drilling.

NOTE: Delivered 100 jts 4 1/2", 11.6#, J-55, & N=80 LT & C csg. Will have csg drifted & threads inspected today.

DC \$ 12,000. TCTD \$ 86,000.

2-16-86

Circ thru bit @ 3600' TD. Lime @ 3600'. Made 395' in 24 hrs. MW 10.2, vis 36, FL 16, pH 9.5, FC 2/32, PV 4, YP 4, 3% solids, 97% water, CHL 180,000. Mud used last 24 hrs - 20 salt gel, 5 starch. PP 1400 psi, 5" liners, 14" stroke, 64 SPM. Dev - 3313' @ 2 1/2°. BHA - bit, sub, 20-6 1/4" DCs, WOB 35, RPM 70. Bit #2, 7 7/8" Walker McDonald 53CF, in @ 447', made 3153' in 73 1/4 hrs, 3-11.

- 1/4 hr - Drilling.  
2 3/4 hrs - Trip for hole in DP at 3210'.  
4 1/4 hrs - Drilling.  
1/2 hr - Survey.  
17 hrs - Drilling. Reached 3600' TD at 5:45 AM 2-16-86.  
1/4 hr - Circ & cond hole.

NOTE: Top of Yates by drilling time 3094'. Top of Yates in George Etz #4 was 3088'. Drifted & cleaned threads on 4 1/2" production csg.

ILLEGIBLE

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2-17-86

Move rig off hole. Lime @ 3600'. Made 0' in 24 hrs. MW 10.2, vis 36, FL 16, pH 9.5, FC 2/32, PV 4, YP 4, 3% solids, 97% water, 180,000 CHL. PP 1400 psi, 5" liners, 14" stroke, 64 SPM. Dev - 3600' @ 2°. BHA - bit, sub, 20-6 1/4" DCs. Bit #2, 7 7/8" Walker McDonald 53CF, in @ 447', made 3153' in 73 1/4 hrs, 3-11.

3/4 hr - Circ & cond hole at 3600' TD.  
3 hrs - Drop totco & POOH laying down DP & DCs.  
1/2 hr - Change rams in BOP to 4 1/2".  
2 1/2 hr - RU & run 4 1/2" production csg.  
1/2 hr - Circ thru csg at 3600' TD.  
3/4 hr - RU Halliburton & cmt csg.  
3 hrs - NU BOPs. Set slips on 4 1/2" csg slacking off 25,000# weight. Cut off 4 1/2" csg. Jet pits. Rig Released at 4:45 PM 2-16-86.

NOTE: Moving rig to George Etz #4 dry hole to stack rig.

CASING & CEMENTING DETAIL

4 1/2" Halliburton Type "M" Guide Shoe	1.00'
1 jt 4 1/2", 11.6#, J-55, LT & C csg	37.83'
4 1/2" Halliburton Float Collar	1.00'
88 jts 4 1/2", 11.6#, J-55, LT & C csg	3573.61'
Total csg on elevators	3613.44'
Csg above RKB	13.44'
Csg landed depth RKB	3600.00'

Ran 10 centralizers.

Halliburton cmtd w/ 500 gals mud flush, followed by 620 sx Halliburton "Light" cmt w/ 18% salt & 1/4# / sx Flocele (mixed 12.7 ppg weight & 1.84 cu ft / sx yield), followed by 380 sx class "C" 50/50 Pozmix "A" w/ 2% gel, 9# / sx salt, & 1/4# / sx Flocele (mixed at 13.7 ppg weight & 1.36 cu ft / sx yield). Displaced 55 bbls fresh water. Plug down at 1:45 PM 2-16-86. Had good circ throughtout cementing operation, but did not circ cmt to surface. NMOCD notified, but did not witness. Lyles Oil Tools ran temperature survey. Found WL PBTD at 3544'. Found TOC 22' from surface.

DC \$ 25,000. TCTD \$ 121,000.  
(includes csg & cmt)

2-18-86

Moved Cactus Rig #62 off hole. Moved most of rig to George Etz #4 dry hole and stacked rig. Will run cased hole GR-Neutron-CCL log today.

DC \$ 1,000. TCTD \$ 122,000.

2-19-86

RU Welex WL truck. Run Dual Spaced Neutron - Gamma Ray - CCL from 3543' WLPBTD to 2000'. Log tops are as follows:

Tansill	3096'
Yates	3162'
Seven Rivers	3378'

Top of Yates in George Etz #4 well was 3088'. Drop from report while preparing to complete well.

DC \$ 1,500. TCTD \$ 123,500.  
(includes log)

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2-22-86

Fenced reserve pit. Set dead men anchors. Levelled location. Made final cut on 4 1/2" csg. Weld on 4 1/2" SOW x 7 1/16" 3000 psi WP wellhead w/ 2 3000 psi WP screwed gate valves. Weld on wrap around 5 1/2" csg to re-enforce wellhead. RU Kill truck. Press test 4 1/2" csg and wellhead to 4000 psi, held OK. SDON.

DC \$ 8,000.  
(includes wellhead)

TCTD \$ 131,500.

2-23-86

No activity.

2-24-86

No activity. Plan to MIRU pulling unit this AM & begin completion activities.

2-25-86

MIRU Genes Well Service pulling unit. Install 7 1/16" x 3000 psi manual BOP. Set tbg racks. Unload 117 jts 2 3/8", 4.7#, J-55, EUE, 8rd new tbg. GIH w/ 3 7/8" bit, sub & 2 3/8" tbg picking tbg up off racks & drifting same. Tag PBTB at 3547' tbg measurement. PBTB by WL measurement was 3543'. Pull bit to 3430'. RU Dowell. Circ hole w/ 2% KCL wtr. Spot 15 bbls 7 1/2% MSR100 acid from 3430' to 2462' (968') inside 4 1/2" csg. Used 8 bbls of 2% KCL wtr to put acid on spot. RD Dowell. POOH w/ tbg & 3 7/8" bit. SDON. Prepare to perf. Yates formation from 3164' - 3429' (55 holes) using 3 1/8" select fire csg gun. Will then acidize w/ 5,500 gals 7 1/2% MSR100 acid.

DC \$ 10,000.  
(includes cost of tbg)

TCTD \$ 141,500.

2-26-86

RU Apache WL truck. Perf Yates formation w/ 1 JSPF using 3 1/8" select fire gun as follows: 3164', 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86; 3198'; 3200', 02, 04, 06, 08, 10, 12, 14, 16, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 61, 66, 68, 70, 75, 77, 79, 86, 88, 90; 3304', 06, 08, 18, 54, 56, 58, 64, 66, 68, 77; 3429'. Total of 55 holes. RD Apache. GIH w/notched collar, 1 jt 2 3/8" tbg, SN, 95 jts 2 3/8", 4.7#, J-55, EUE, 8rd tbg, 3 1/16" OD x 3' blast. jt. Btm of notched collar at 3140'. SN at 3108'. Top perf 3164'. Remove BOP. Flange up 7 1/16" 3000 psi x 2 3/8", EUE, 8rd tbg head w/ 2 7/8" stripper rubber. RU Dowell. Hook onto csg valve. Load annulus w/ 1 1/2 bbls 2% KCL wtr & break down perfs at 640 psi. Pump 7 bbls 2% KCL wtr to clear all acid from annulus. Hook onto tbg. Acidize Yates perfs 3164'-3429' (55 holes) down 2 3/8" tbg w/total of 5,500 gals 7 1/2% MSR 100 acid w/ 550 scf/bbl N2 & 110 ball sealers as follows:

25,000 scf N2 pad

30 bbls acid	4 BPM acid + 2200 scf/min N2	3050 psi
55 bbls acid	4 BPM acid + 2200 scf/min N2	2 ball sealers/bbl
	3030 psi	
20 bbls acid	4 BPM acid + 2200 scf/min N2	3140 psi
10 bbls acid	5 BPM acid + 2750 scf/min N2	3980 psi
13 bbls 2% KCL wtr flush		
	5 BPM KCL wtr + 2750 scf/min N2	3980 psi

ISIP 1300 psi. 5" 1227 psi. 10" 1162 psi. 15" 1135 psi. Had some ball action but no ball out. Casing pressure varied from 364 psi to 883 psi during acid job. Total load wtr including csg capacity is 221 bbls. Total N2 used is 154,000 scf. RD Dowell. Install choke. Open well at 3:30 PM to pit w/ 1000 psi SITP. Well flowed back a mist of fluid & N2 for 30 mins & died. Estimate recovered 30 bbls. RU swab. Found IFL 400' FS. Swab FL to 2900' FS (200' above SN at 3108').

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Rec 65 bbls acid wtr w/ 1% oil cut to reserve pit. Had small blow of natural gas after each swab run. Recovered total of 95 bbls load wtr for the day by flowing & swabbing. 126 BLWTR. Shut in well at 6:30 PM. Prepare to evaluate well today & frac treat Yates zone on Thursday 2-27-86 if necessary.

DC \$ 7,000.  
(Includes acid job)

TCTD \$ 148,500.

2-27-86

Had 13 hr SITP 300 psi & SICP 270 psi. Opened tbg to pit & bled down to 0 psi in 20 mins recovering mostly gas. RU swab. Fould IFL 2300' FS. Has 600' of fluid entry overnight, approx 8 1/2 bbls. Pulled from SN at 3108'. Recovered acid wtr, oil & gas. Well started flowing mist of fluid w/ trace of oil. Csg press dropped from 270 psi to 20 psi. Well flowed for 30 mins & died. Made 2nd swab run & found FL 50' above SN at 3108', approx 0.7 bbls of fluid. Made run & SD 30 mins. Made 3rd run & found FL 50' above SN again. Had blow of gas after swab run. SI tbg. Install orifice well tester on csg. Opened csg. Gas rate on 0.125" plate with 5" of mercury was approx 5 MCF. Well flowed thru orifice well tester for 3 hrs & had stabilized flow rate of 5 MCF/ day of natural gas. Made 2 additional swab runs during 3 hrs of flowing well up on csg. Had 25' of fluid above SN on each run and no recovery on each run. Shut well in overnight. Move in & set 3-500 bbl horizontal frac tanks. Load each frac tank w/ 375 bbls fresh water. Move in sand bin & fill w/ 85,000# 20/40 sand and 50,000# 10/20 sand. Recovered estimated total of 8 1/2 bbls load water for the day. 118 BLWTR. Prep to frac treat Yates perms down 2 3/8" tbg and 2 3/8" x 4 1/2" annulus this AM.

DC \$ 1,000.

TCTD \$ 149,500.

2-28-86

Overnite SITP 240 psi & SICP 140 psi (16 hr). Opened tbg to pit & bled down in 5 mins. recovering dry gas. RU swab. Found IFL 2700' FS (400' above SN), approx. 5-1/2 bbls of fluid. Made 1 swab run pulling off SN. Recovered approx. 4 bbls of mostly oil. Well continued flowing gas w/mist of fluid after swab run. Bled csg press off to pit recovering dry gas. RU Dowell. Frac treat Yates formation perms 3164' - 3429' (55 holes) down 2-3/8" tbg & 2-3/8" X 4-1/2" annulus as follows:

STAGE	RATE (BPM fluid)	PRESS (psi)
9000 gals YF3PSD + 550 scf/bbl N2	17.1	2262
3000 gals YF3PSD w/2 ppg 20/40 sd + 550 scf/bbl N2	19.1	2225
3000 gals YF3PSD w/3 ppg 20/40 sd + 550 scf/bbl N2	18.0	2381
5000 gals YF3PSD w/4 ppg 20/40 sd + 550 scf/bbl N2	19.6	2564
10,000 gals YF3PSD w/5 ppg 20/40 sd + 500 scf/bbl N2	19.6	2738
10,000 gals YF3PSD w/5 ppg 20/40 sd + 550 scf/bbl N2	19.1	2940
1344 gals WF10 + 550 scf/bbl N2	19.6	2780

Total sand was 85,000# 20/40 & 50,000# 10/20. Total rate w/fluid plus N2 was approx. 30 BPM. ISIP 1700 psi. 5 min 1650 psi. 10 min 1621 psi. 15 min 1602 psi. Job complete @ 11:00AM. 985 BLWTR. Still lacked 118 BLWTR from acid job. Total of 1103 BLWTR. RD Dowell. Hook up wellhead w/adjustable choke. Open well to reserve pit @ 12:00 noon on 18/64" choke w/1400 psi SITP. Flowed well from 12:00 noon till 2:00PM (2 hrs.) to reserve pit recovering N2 & approx 130 bbls load wtr. Shut well in @ 2:00PM & hooked up flowline to frac tanks. Installed pressure gauge on csg. SICP 1000 psi. Flowed well to frac tanks from 2:30PM till 4:30 PM (2 hrs) on 20/64" choke. FTP 400 psi. SICP 800 psi. Recovering natural gas & 20 bbls load wtr. Shut well in @ 4:30PM & hook up 2 phase rental test separator w/2" orifice well tester.

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Flowed well to frac tank w/fluid & to atmosphere w/gas from 5:00PM till 6:00PM (1 hr) on 20/64" choke w/FTP 360 psi & SICP 800 psi. Recovered 17 bbls load wtr w/5% oil cut. Gas rate was 21" of mercury on 0.750" plate for 406 MCF/day. Total fluid recovered from 12:00 noon till 6:00PM was 167 bbls. Left well flowing overnite thru test separator w/2 pulling unit employees attending well. From 6:00PM till 7:00AM (13 hrs) well recovered additional 92 bbls fluid in frac tank. Total fluid produced into frac tank from 2:30PM till 7:00AM (16-1/2 hrs) was 129 bbls. Color cut frac tank & had 20 BO + 109 BW. Well flowed all night thru test separator w/20 psi backpressure. Average gas rate was 15" mercury on 0.750" plate w/50# spring for 327 mcf/day. At 7:00AM 2-28-86 FTP 140 psi on 20/64" choke w/500 psi SICP. Flowed 130 BLW to reserve pit & 109 BLW to frac tank for the day. Now have 864 BLWTR. Will open choke on tbq today & flow well. If tbq dies will swab well to recover load. Fluid sample this AM was 50% oil.

DC \$ 30,000.

TCTD \$179,500.

(Includes frac job, frac tanks, wtr & rental separator)

3-1-86

Flowed well thru portable test separator w/ 20 psi back pressure from 7:00 AM till 12:00 noon (5 hrs) changing choke size from 20/64" to 30/64" choke. Recovered 20 BO + 6 BW in 5 hrs. At 12:00 noon choke size was 26/64". FTP varied from 70 psi to 175 psi and SICP was 350 psi. Gas rate was 18 psi (36" mercury) on 0.750" plate for 336 MCF/day. Gas rate fluctuates as the liquid flow rate surges. Last 2 hrs liquid flow rate was 5 bbls/hr. Flowed from 12:00 noon till 5:00 PM (5 hrs) on 22/64" choke w/ FTP 200 psi and SICP 300 psi. Recovered 14 BO + 4 BW in 5 hrs. Average flow rate 3 bbls/hr. Gas rate was 15 psi (30" mercury) on 0.750" plate for 327 MCF/day. Left well flowing overnight on 22/64" choke, thru portable separator unattended. From 5:00 PM till 8:00 AM (15 hrs) well recovered 30 BO + 27 BW. FTP 160 psi on 22/64" choke. SICP 325 psi. Avg flow rate 3.8 bbls/hr. Gas rate was 15 psi (30" mercury) on 0.750" plate for 327 MCF/day. Total recovery for past 25 hrs (7:00 AM 2-28-86 till 8:00 AM 3-1-86) was 64 BO + 37 BW for total of 101 bbls fluid. Now have 827 BLWTR. Continue flow testing well on 22/64" choke. Delivered 3600' of 3/4" new sucker rods to location and unloaded same. Delivered & set 40 pmpg unit with 10 hp electric motor & control panel.

DC \$ 5,000.

TCTD \$ 184,500.

(includes sucker rods)

3-2-86

Flowed well thru portable test separator w/ 20 psi back pressure from 8:00 AM 3-1-86 till 8:00 AM 3-2-86 (24 hrs) on 22/64" choke. FTP 130 psi, SICP 275 psi. Recovered 50 BO + 0 BW in frac tank. Average flow rate was 2 bbls/hr. Gas rate was 12 psi (24" mercury) on 0.750" plate for 285 MCF/day. Continue flow testing well on 22/64" choke. 827 BLWTR.

DC \$ 500.

TCTD \$ 185,000.

3-3-86

Flowed well thru portable test separator w/ 20 psi back pressure from 8:00 AM 3-2-86 till 8:00 AM 3-3-86 (24 hrs) on 22/64" choke. FTP 120 psi, SICP 230 psi. Recovered 40 BO + 0 BW in frac tank. Avg flow rate 1.7 bbls/hr. Gas rate was 12 psi (24" mercury) on 0.750" plate for 285 MCF/day. 827 BLWTR. Will RD pulling unit today and flow well one more day to eliminate any N2 from gas stream.

DC \$ 500.

TCTD \$ 185,500.

3-4-86

Flowed well thru portable test separator w/ 20 psi back pressure from 8:00 AM 3-3-86 till 8:00 AM 3-4-86 (24 hrs) on 22/64" choke. FTP 25

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psi, SICP 200 psi. Recovered 45 BO + 0 BW in frac tank. Avg flow rate 1.8 bbls/hr. Gas rate was 6 psi (12" mercury) on 0.750" plate for 192 MCF/day. Shut well in at 9:00 AM 3-4-86. RD & released Gene's Well Service pulling unit. Moved 3600' new 3/4" sucker rods from location to yard in Jal, NM. Released 1 of 3 frac tanks. Bled water off frac tank that was being produced into, approx 125 BW. Have approx 200 BO in frac tank. Will shut well in this AM & RD rental phase separator. Prepare to build tank battery. 827 BLWTR.

DC \$ 1,000.

TCTD \$ 186,500.

3-5-86

Shut well in at 9:00 AM 3-4-86. RD rental 2 phase separator. Prepare to check on gas contract. Prepare to build tank battery. 827 BLWTR. Drop from report until further activity.

DC \$ 500.

TCTD \$ 187,000.

3-13-86

Well has been shut in since 9:30 AM 3-4-86. SITP 525 psi, SICP 500 psi. Built tank battery pad. Install 2 phase separator. Deliver & set 2-300 bbl welded steel oil tanks. Install downcomers in stock tanks. Begin hooking up tank battery. Have received NMOCDD approval to move approx 300 bbls oil recovered in 500 bbl frac tank. Worked oil w/ hot oil truck & oil is now ready to move. Wait on test of gas volume by potential gas purchaser to negotiate gas contract. Drop from report until further activity.

DC \$ 15,000.

TCTD \$ 202,000.

(includes 2-300 bbl tanks, separator, connections & building pad)

3-22-86

SITP 485 psi and SICP 460 psi. Opened tbg on 16/64" choke flowing thru 2 phase separator dumping all fluid to 300 bbls stock tank. Warren Petroleum Company installed orifice well tester on gas vent line off separator. All gas was being measured and then vented to atmosphere. Orifice well tester had 1/2" plate. After approx 24 hrs gas rate was 20 psi (40" mercury) which equates to 175 MCF/day. Recovered 32 bbls total fluid in stock tank. Breakdown after color cut was 32 BO + 0 BW. FTP 110 psi on 16/64" choke. Backpressure separator was 22 psi.

3-23-86

Flowed well on 16/64" choke thru separator for 24 hrs. FTP 95 psi. Recovered 18 BO + 0 BW. Gas rate was 16 psi (32" mercury) on 1/2" plate which equates to 152 MCF/day.

3-24-86

Flowed well on 16/64" choke thru separator for 24 hrs. FTP 89 psi, SICP 300 psi. Recovered 17 BO + 0 BW. Gas rate was 15 psi (30" mercury) on 1/2" plate which equates to 145 MCF/day. Warren Petroleum Company concluded their test of gas flow rate, caught a gas sample for chromatograph analysis and removed their orifice well tester. HCW installed orifice well tester & continued flow testing well.

3-26-86

Changed 16/64" positive choke to 22/64" positive choke. Flowed well for 24 hrs on 22/64" choke thru separator. FTP 55 psi, SICP 225 psi. Recovered 17 BO + 0 BW. Gas rate was 8 psi (16" mercury) on 1/2" plate which equates to 100 MCF/day.

3-27-86

Flowed well for 24 hrs on 22/64" choke thru separator w/ 22 psi back pressure. FTP 70 psi, SICP 225 psi. Recovered 28 BO + 0 BW by color

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cut of stock tank. Gas rate was 12 psi (24" mercury) on 1/2" plate which equates to 127 MCF/day.

3-28-86

Flowed well for 24 hrs on 22/64" choke thru separator w/ 22 psi back pressure. FTP 50 psi, SICP 200 psi. Recovered 24 BO + 0 BW by color cut of stock tank. Gas rate was 9 psi (18" mercury) on 1/2" plate which equated to 107 MCF/Day.

3-29-86

Changed out positive choke from 22/64" to 34/64". Flowed well for 24 hrs on 34/64" choke venting all gas to atmosphere and putting all fluid production in stock tank. FTP 15 psi, SICP 200 psi. Recovered 22 BO + 0 BW. Gas rate was 8 psi (16" mercury) on 1/2" plate which equates to 100 MCF/Day.

3-30-86

Flowed well for 24 hrs on 34/64" choke. FTP 15 psi, SICP 180 psi. Recovered 29 BO + 0 BW. Gas rate was 10 psi (20" mercury) on 1/2" plate which equated to 115 MCF/Day.

3-31-86

Flowed well for 24 hrs on 34/64" choke. FTP 25 psi, SICP 175 psi. Recovered 24 BO + 0 BW. Gas rate was 9 psi (18" mercury) on 1/2" plate which equates to 107 MCF/Day. One 300 bbl stock tank is full. Will let set one day & shake out to check for water.

4-1-86

Flowed well on 34/64" choke for 24 hrs. FTP 20 psi, SICP 180 psi. Recovered 29 BO + 0 BW. Gas rate was 8 psi (16" mercury) on 1/2" plate which equates to 100 MCF/Day.

4-2-86

Flowed well on 34/64" choke for 24 hrs. FTP 20 psi, SICP 180 psi. Recovered 20 BO + 0 BW. Gas rate was 8 psi (16" mercury) on 1/2" plate which equates to 100 MCF/Day. Shut well in at 10:00 AM 4-1-86. Wait on negotiating gas contract.