

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

NY L CONS COMMISSION
Approved:
Budget Bureau No. 1004-0137
Expires August 31, 1985
NM 88210

Draper PD
(See other in-
Artesia, NM
reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

NM 34247

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Sheep Draw Federal

9. WELL NO.

#6

10. FIELD AND POOL, OR WILDCAT

Happy Valley Delaware

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec33-T225-R26E

12. COUNTY OR
PARISH

Eddy

13. STATE

NM

1a. TYPE OF WELL:

OIL
WELL ☒

GAS
WELL ☐

DRY ☐

Other ☐

b. TYPE OF COMPLETION:

NEW
WELL ☒

WORK
OVER ☐

DEEP-
EN ☐

PLUG
BACK ☐

DIFF.
RESVR. ☐

Other ☐

2. NAME OF OPERATOR

LOUIS DREYFUS NATURAL GAS CORP.

3. ADDRESS OF OPERATOR

14000 Quail Springs Pkwy, Suite 600 OKla. City OK

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

990 FWL & 1190 FNL UL "D" Sec 33-T225- R26E

At top prod. interval reported below

Same

At total depth

Same

14. PERMIT NO.

30-015 27687

DATE ISSUED

11/10/93

15. DATE SPUDDED

5/28/95

16. DATE T.D. REACHED

6/14/95

17. DATE COMPL. (Ready to prod.)

7-20-95

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

3302 GL 3311 KB

19. ELEV. CASINGHEAD

3304

20. TOTAL DEPTH, MD & TVD

4987 MD

21. PLUG, BACK T.D., MD & TVD

4943'

22. IF MULTIPLE COMPL.,
HOW MANY*

23. INTERVALS, HOLE LOGS

CABLE TOOLS

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Delaware 2500 - 4880

25. WAS DIRECTIONAL
SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Litho Density Compensated Neutron, Dual Laterlog Micro SFL Gamma Ray

27. WAS WELL CORRED

Yes Sidewall

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	54.5	357	17 1/2	400 sks to surface	N/A
8 5/8	24.0	1642	12 1/4	625 sks to surface	N/A
5 1/2	15.5	4987	7 7/8	995 sks to surface	N/A

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	2789	N/A

31. PERFORATION RECORD (Interval, size and number)

4868-4876 17 holes

CIBP e 4830'

2672-2700 57 holes

2540-2560 41 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4868-4876	1000 gals 7 1/2% acid, 14000 gal #30 gel 8100# 16/30 4000# 16/30 resin
2540-2700	3250 gals 7 1/2% acid, 15000 gal 30# gel, 29500# 16/30, 12800# 16/30

33. PRODUCTION

DATE FIRST PRODUCTION 7/20/95 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Swabbing WELL STATUS (Producing or Shut-in) Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7/20/95	12			26	10	242	384
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
40	40		52	20	536		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY
Mickey Young

35. LIST OF ATTACHMENTS

Electric logs, typed Drlg & comp forms

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Kent Sams

TITLE

CARLSBAD, NEW MEXICO

DATE

7/26/95

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Bell Canyon	1672					
Sheep Draw	2246					
Cherry Canyon	2406					
Mazanito Marker	2514					
U3-Amigos Marker	2775					
L3-Amigos Marker	2830					
Brushy Canyon	3746					
Happy Valley Sand	4586					
Bone Spring	4956					

Louis Dreyfus Natural Gas
Attn: Lee Flowers
Box 129
Whitelace, TX 79379

Sheep Draw Federal #6
Eddy County, NM

357	3.57	1/2	0.88	3.12	3.12
821	4.64	1 1/4	2.19	10.15	13.27
1308	4.87	1 1/4	2.19	10.65	23.93
1430	1.22	1/2	0.88	1.07	24.99
1927	4.97	1	1.75	8.70	33.69
2400	4.73	1 1/4	2.19	10.35	44.04
2872	4.72	1	1.75	8.26	52.30
3370	4.98	1 1/2	2.63	13.07	65.37
3905	5.35	1 1/2	2.63	14.04	79.42
4378	4.73	1 3/4	3.06	14.49	93.90
4809	4.31	2 1/4	3.94	16.97	110.87
4987	1.78	1	1.75	3.12	113.99

James L. Brazeal - President

STATE OF TEXAS }
COUNTY OF COLLIN }

The attached instrument was acknowledged before me on the
_____ day of _____, 19____ by James L. Brazeal as
President of Brazeal Inc, d/b/a CapStar Drilling

Paula Carlisle - Notary Public

LOUIS DREYFUS NATURAL GAS CORP
DRILLING AND OPERATION SUMMARY

SHEEP DRAW FED #6

1190' FNL & 990' FWL
SEC 33, T22S-R26E
EDDY COUNTY, NM
GR ELEV:
LDNGC WI:
OBJ: DELAWARE

PROP. NO.420128-009
AFE. NO.676
AFE:DHC:\$195,500 CWC:\$367,750
CONTR:
SPUD DATE:
PROPOSED TD:5000'

05/28/95	Should spud around noon today. 13 3/8" csg. Starting csg head & csg spool on location. Set 40' x 20" conductor & cemented w/3 1/2 yds concrete. DMC \$0 DWC \$12,395	TMC \$0 CWC \$12,395
05/29/95	Day 1 -Depth-249; Prog-249; Opr-Drlg; Formation-Snd; MW-8.8; Vis-29; pH-10;Bit #1; S/N-L73077; Size-17 1/2 ; MFG-Smith; Type-DST; Jets-16/16/13; In-0; Out-Drlg; Ftg-249; Hrs-13 1/4; FPH-18.8; WOB-All; RPM-80; BHA-245; Time Break Down: 8 hrs - MIRU; 1 3/4 hrs - Moving spud mud & prep to spud; 1 3/4 - Drlg - (Spud w/rotary @ 3:45pm MST 5-28-95); 1 hr- Repair (Swivel Repacked) 11 1/2 hrs - Drlg. DMC \$320 DWC \$4,054	TMC \$320 CWC \$16,449
05/30/95	Day 2 - Depth-357; Prog-108; Opr-WOC; Formation-Lm & Snd; MW-8.9; Vis-34; pH-9; Bit #1; S/N-L73077; Size-17 1/2; MFG-Smith; Type-DST-RR; Jets-16/16/13; In-0; Out-357; Ftg-357; Hrs-27 1/4; FPH-13.1; T/B/G-2/6/F; WOB- 20K; RPM-65; BHA-357'; Liner-5 1/2; Stroke-18; SPM-48; Press-600; Dev- 1/4 @ 357; Time Break Down: 6 1/2 hrs-Drlg; 1/4 hr SR; 4 1/2-Drlg; 3/4 hr - LD plugged collar; 3 hr - Drlg; 1 hr- Circ & totco; 2 hr- POOH; 3 1/4 hr - RU & running 13 3/8" csg; 1/2 hr - Circ; 1 hr- RU DS & cmt ; 1 1/4 hr - WOC. Csg Report - Ran 8 jts 13 3/8" J55-54.5#; ST&C Csg (361') to 357'; Cmtld w/400 sxs C w/2% CaCL2 & 1/4# Floceal. (14.8#/gal & 1.32 yld) Plug dn @ 4:45 am (MST) 5-30-95 w/250 psi Circ 95 sxs cmt to pit. Chk float, small flowback. SI & wait 2 hrs. DMC \$341 DWC \$15,302	TMC \$662 CWC \$31,751
05/31/95	Day 3 - Depth-357; Prog-0; Opr-NU BOP; MW-84; Vis-27; pH-8.9; Liner-5 1/2; Stroke-18; Cum Wtr-3221 bbls; Cum Bits-1; Rot Hrs-27 1/2; Time Break Down: 24 hrs NU Wellhead (Having problems w/rig's BOP. Changing out rams.) Note: Called BLM 3 hrs before setting 13 3/8" csg & they said no one would witness. Note: 17.05' of 13 3/8" cut off. DMC \$60 DWC \$6,695	TMC \$722 CWC \$38,446
06/01/95	Day 4 - Depth-677; Prog-320; Opr-Drlg ; MW-84; Vis-28; pH-11; Bit #2; S/N-614887; Size-12 1/4; Type-582F; Jets-18/18/18; In-35.7; Out-Drlg; Ftg-320; Hrs-15 1/4; FPH-20.9; WOB-25-35; RPM-60; BHA-610; Liner-5 1/2; Stroke-18; SPM-59; Press-600; NV-148; AV-74 ft per min; Cum Bits-2; Rot Hrs-42.50; Time Break Down- 3 3/4 hrs - NU BOP; 1/4 hr - Test blind rams - 450 psi - OK; 1hr- TIH; 1/4 hr - Test pipe rams - 450 psi - OK; 3/4 hr - TIH Tag cmt @301; 2 3/4 hr - Drill Plug & cmt; 15 1/4 hrs- Drlg. DMC \$0 DWC \$5,379	TMC \$722 CWC \$43,825

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Drilling and Operation Summary
Sheep Draw Federal #6

06/02/95 Day 5 - Depth-1203; Prog-526; Opr-Drlg ;Formation-S&L; MW-8.6; Vis-28; pH10.5; Solids-.4; Chls-3200; Calc-900; Bit #2; S/N-614887; Size-12 1/4; Type-582F; Jets-18/18/18; In-357; Out-Drlg; Ftg-846; Hrs-37 FPH-22.86; WOB-30-40; RPM-60; BHA-879'; Liner-5 1/2; Stroke-18; SPM-51; Press-700; GPM-302;NV-130; AV-65/59; Dev- 1 1/4 @ 821;Cum Bits-2; Rot Hrs-64 3/4; Time Break Down- 2 1/2 hrs - Drlg; 1/4 hr - Service Rig; 1 hr - Drlg; 1 1/4 hr- Rig repair; 3 1/2 hrs - Drlg; 1/4 hr -Totco; 15 1/4 hr - Drlg;

DMC \$156	TMC \$878
DWC \$7,695	CWC \$51,520

06/03/95 Day 6 - Depth-1430; Prog-227; Opr-Waiting on Magnet; Formation-S&L; MW-8.4; Vis-28; pH10.7; Solids-.6; Chls-1400; Calc-700; Bit #2; S/N-614887; Size-12 1/4; Type-582F; Jets-18/18/18; In-357; Out-1430; Ftg-1073; Hrs-54 1/2 FPH-19.7; T/B/G: Left Cone in hole; WOB-35K; RPM-60; BHA-879'; Liner-5 1/2; Stroke-18; SPM-58; Press-700; GPM-344; NV-14.7; AV-74/67; Dev- 1 1/4 @ 1308 & 1 1/2 @ 1430; Cum Wtr - 300; Cum Bits- 2; Rot Hrs-82; Time Break Down- 3 3/4 hrs - Drlg; 1/4 hr - Service Rig; 4 3/4 hr - Drlg; 1/2 hr- Totco; 8 3/4 hr - Drlg; 4 1/4 hr- Trip for Bit (Left 1 Cone in hole) 1 3/4 hr - Waiting on Magnet.

DMC \$44	TMC \$922
DWC \$3,470	CWC \$54,990

06/04/95 Day 7 - Depth-1642; Prog-212; Opr- Trip for 8 5/8" Csg; Formation- Lime; MW-8.4; Vis-28; pH-10; Chls-1400; Bit #3; S/N-630070; Size-12 1/4; MFG-Sec.; Type-582F; Jets-13/13/13; In-1430; Out-1642; Ftg-212; Hrs-13 1/2; FPH-15.7; WOB-40; RPM-60; BHA-878; Liner-5 1/2; Stroke-18; SPM-58; Press- 750; GPM-344; NV-147; AV-74/67; Dev-1 1/2 @ 1430; Cum Wtr-6538; Cum Bits-3; Rot Hrs-95 1/2; Time Break Down - 1/2 hr MU Magnet; 1 1/2 hr - Trip in hole; 1/2 hr- Wash over cone; 2 hrs- POOH; 1/4 hr- LD Magnet; 2 1/4 hrs - Trip in hole w/Bit #3; 1/2 hr- Drlg; 1 hr- Rig repair; 13 hrs- Drlg; 1/2 hr - Circ for csg; 2 hrs- POOH.

DMC \$72	TMC \$994
DWC \$3,806	CWC \$58,796

06/05/95 Day 8 - Depth-1642; Prog-0; Opr- Trip in hole; Formation-Lime; MW-8.4; VIS-28; pH-10; Solids-.4; Chls-1200; Calc-700; Bit #3; S/N-630070; Size-12 1/4; MFG-Sec; Type-582F; Jets-13/13/13; In-1430; Out-1642; Ftg-212; Hrs-13 1/2; FPH-15.7; Bit #4; S/N-106XG; Size- 7 7/8; MFG-HTC; Type-J33C; Jets-13/13/13; In-1642; BHA-720; Time Break Down - 1 hr - Trip out of hole; 1 hr - RU csg crew; 3 1/2 hrs - Run 8 5/8" csg; 1/2 hr - Circ; 1 hr - Cmt; 17 hrs - WOC, cut off, NU test BOP & start in hole w/next bit. Csg Report - Ran 37 jts 8 5/8" J55-ST/C - 24# Csg (1647') Set @ 1642': (1 - Guide Sh; 1 - Shoe jt; 1 - Flt Collar & 5 Centerlizers) Collar @ 1600: Cemtd w/400 sks 65/35 H/poz w/6% gel & 1/4" floceal . Mixed 12.4 w/2.14 yd; 225 sxs 'C' w/1% CaClz. Mixed 14.8 & 1.32 yd . Displaced w/FW. Plug dn 1:00 pm (MST) 6-4-95 - Circ 102 sxs to pit. Chk float (OK) Start cut off. Called BLM @ 9:00 am. 6-4-95 - Tested blinds, runs & chk manifold to 850/30 min each. Held ok.

DMC \$237	TMC \$1,231
DWC \$21,182	CWC \$79,978

06/06/95 Day 9 - Depth-2035; Prog-393; Opr-Drlg; Formation-Snd; MW-8.7; Vis-28; pH10; Solids-Trace; Chls-1000; Calc-780; Bit #4; S/N-406XG; Size-7 7/8; MFG-HTC; Type-J33C; Jets-13/13/13; In-1642; Out-Drlg; Ftg-393; Hrs-13 1/2; WOB-40; RPM-60; BHA-723'; Liner-5 1/2; Stroke-18; SPM-48; Press-850; GPM-285; NV-235; AV-268/188; Dev- 1 @ 1927 ; Cum Bits- 4; Rot Hrs-109; Time Break Down - 2 hrs-Trip in hole; 1/4 hr-Test rams to 1000 psi/30 min - OK; 3/4 hr-Trip in hole; 1/2 hr-Service rig; 1 1/2 hr -Drlg cmt & plug; 11 1/2 hrs - Drlg new formation; 1/2 hr- Totco; 5 hrs -Trip out of hole for lost totco/trip in hole; 2 hrs-Drlg.

DMC \$0	TMC \$1,231
DWC \$6,447	CWC \$86,425

06/07/95 Day 10 - Depth-2510; Prog-475; Opr-Rig Repair; Formation-Snd & Lime ; MW-9.0; Vis-30; PV/YP-1\3; Gal-2/3; pH-12; WL-18.4; Cake-Film; Solids-.3; Chls-82000; Bit #4; S/N-406XG; Size-7 7/8; MFG-HTC; Type-J33C; Jets-13/13/13; In-1642; Out-Drlg; Ftg-868; Hrs-28 1/2; WOB-40; RPM-60; BHA-723'; Liner-5 1/2; Stroke-18; SPM-46; Press-850; GPM-272; Dev- 1 1/4 @ 2400; Cum Wtr-2 brine; Rot Hrs-137 1/2; Time Break Down - 1 3/4 hrs-Drlg; 1/4 hr-Service Rig; 10 hrs-Drlg; 3/4 hr-Totco; 3 1/4 hrs-Drlg; 8 hrs-Rig repair.

DMC \$1,141	TMC \$2,372
DWC \$8,254	CWC \$94,679

06/08/95	Day 11 - Depth-2519; Prog-9; Opr-Rig Repair/Circ; Formation-Snd & Lime ; MW-9.0; Vis-30; PV/YP-1\3; Gal-2/3; pH-12; WL-18.4; Cake-Film; Solids-.3; Chls-82000; Bit #4; S/N-406XG; Size-7 7/8; MFG-HTC; Type-J33C; Jets-13/13/13; In-1642; Out-Drlg; Ftg-877; Hrs-29; WOB-40; RPM-60; BHA-723'; Liner-5 1/2; Stroke-18; SPM-46; Press-850; GPM-272; Cum Wtr-2 brine; Rot Hrs-138; Time Break Down - 6 hrs-Rig repair (replace swivel); 1/2 hr-Drlg; 17 1/2 hrs-Rig repair (replaced HYD pmp)	
	DMC \$0	TMC \$2,372
	DWC \$718	CWC \$95,397

06/09/95 Day 12 - Depth-3300; Prog-781; Opr-Drlg @ 20-24/Hr; Formation-Dolo; MW-9.0; Vis-30; PV/YP-2/3; Gal-2/2; pH-10.5; WL-16; Cake-1/32; Solids-.5%; Chls-81000; Calc-Trace Sulfides - 0; Bit #4; S/N-406XG; Size-7 7/8; MFG-HTC; Type-J33C; Jets-13/13/13; In-1642; Out-Drlg; Ftg-1658; Hrs-50 1/2; FPH-32.8; WOB-40K; RPM-60; BHA-723'; Liner-5 1/2; Stroke-18; SPM-48; Press-1000; GPM-284; NV-234; AV-268/188; Dev-1@2872; Cum Wtr-2 brine; Cum Bits-4; Rot Hrs-159 1/2; Time Break Down - 3/4 hr-Rig repair (Hyd pmp); 1/4 hr-Drlg; 1/4 hr-Service rig; 2 1/4 hrs-Drlg; 3/4 hr-Change Hyd oil & filters; 2 1/2 hrs-Drlg; 1/2 hr-Change Hyd oil & filters; 3 1/4 hrs-Drlg; 1/4 hr-Totco; 13 1/4 hrs-Drlg

DMC \$178	TMC \$2,550
DWC \$10,770	CWC \$106,167

06/10/95 Day 13 - Depth-4039; Prog-739; Opr-Drlg; Formation-Snd/Sh; MW-9.2; Vis-30; PV/YP-2\1; Gal-1/2; pH-9.5; WL-24; Cake-Film; Solids-.5%; Chls-38000; Calc-480; Bit #4; S/N-A06XG; Size-7 7/8; MFG-HTC; Type-J33C; Jets-13/13/13; In-1642; Out-Drlg; Ftg-2392; Hrs-73; FPH-32.8; WOB-40; RPM-60; BHA-723'; Liner-5 1/2; Stroke-18; SPM-48; Press-1000; GPM-284; NV-234; AV-268/188; Dev-1 1/4 @ 3370 & 1 1/4 @ 3862; Cum Wtr-4 lds brine; Cum Bits-4; Rot Hrs-182
Time Break Down - 2 1/2 hrs-Drlg; 1 hr-Totco/Service rig & jet pits; 17 hrs-Drlg; 1/2 hr-Totco/service swivel; 3 hrs-Drlg
DMC \$0 TMC \$2,550
DWC \$11,439 CWC \$117,606

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06/11/95 Day 14 - Depth-4521; Prog-482; Opr-Drlg; Formation-Snd/Sh; MW-9.4; Vis-31; PV/YP-4/2; Gal-1/2; pH-9.5; WL-28; Cake-1/16; Sand-Trace; Solids-2.3; Chls-84000; Bit-#4; S/N-AO6XG; Size-7 7/8; MFG-HTC; Type-J33C; Jets-13/13/13; In-1642; Out-Drlg; Ftg-2874; Hrs-93 1/2; FPH-30.7; WOB-45; RPM-60; BHA-723; Cum Wtr-4 lds B/W; Cum Bits-4; Rot Hrs-202 1/2; Time Break Down - 1 1/4 hrs-Drlg; 1/4 hr-Service rig; 2 hrs-Drlg; 1/2 hr-Change pmps; 1 hr-Drlg; 1/4 hr-Adjust pmp; 4 3/4 hrs-Drlg; 1 1/2 hrs-Jet pit; 1/4 hr-Drlg; 1/2 hr-Adjust pmp; 6 hrs-Drlg; 1/2 hr-Totco; 5 1/4 hrs-Drlg;
DMC \$464 TMC \$3,014
DWC \$7,095 CWC \$124,701

06/12/95 Day 15 - Depth-4809; Prog-288; Opr-Bit Trip; Formation-Snd (90%) Sh-(10%); MW-9.2; VIS-29; PV/YP-2/3; pH-9; WL-18; Cake-1/32; Sand-Trace; Solids-2.0; Chls-65K; Calc-200; Bit-#4; S/N-AO6XG; Size-7 7/8; MFG-HTC; Type-J33C; Jets-13/13/13; In-1642; Out-4809; Ftg-3167; Hrs-113 3/4; FPH-27.84; WOB-45; RPM-60; BHA-723; Liner-5 1/2; Stroke-18; SPM-48; Press-1000; GPM-284; NV-234; AV-268/188; Cum Bits-4; Time Break Down - 4 1/4 hrs - Drlg; 1 hr-Work on #1 pmp; 1 1/4 hrs-Drlg; 1 hr-Work on #1 pmp; 7 hrs-Drlg; 3/4 hr-Service rig; 7 3/4 hrs-Drlg; 1 hr-POOH w/bit #4; * Started mud up but did not get around before POOH.
DMC \$2,293 TMC \$5,307
DWC \$7,265 CWC \$131,966

06/13/95 Day 16 - Depth-4962; Prog-153; Opr-Drlg; Formation-Limestone; MW-9.3; VIS-33; PV/YP-3/5; pH-10; WL-10.4; Cake-1/32; Sand-0; Solids-2.0; Chls-68K; Calc-800; SO₂-Bit #4; S/N-406XG; Size-7 7/8; MFG-HTC; Type-J33C; Jets-13/13/13; In-1642; Out-4809; Ftg-3167; Hrs-113 3/4; T/B/G-3/2/In; Bit-#5; S/N-7 7/8 RR; Size-7 7/8; MFG-; Type-63CF; Jets-14/14/13; In-4809; Out-Drlg; Ftg-153; Hrs-13; FPH-11.8; WOB-45K; RPM-60; BHA-723; Liner-5 1/2; Stroke-18; SPM-49; Press-1000; GPM-290; NV-216; AV-273/192; Dev-2 1/4 @ 4809; Time Break Down - 4 3/4 hrs -Bit Trip; 1/2 hr-Service Rig; 2 hr-Trip in hole; 1/4 hr-Adjust brake; 3 hr-Trip in hole; 6 1/2 hr-Drlg; 1/2 hr-Rig repair; 6 1/2 Drlg.
DMC \$929 TMC \$6,236
DWC \$4,059 CWC \$136,025

06/14/95 Day 17 - Depth-4987; Prog-25; Opr-Prep to run 5 1/2 csg; MW-9.2; VIS-34; PV/YP-3/5; Gal-8/4; pH-10; WL-8; Cake-1/32; Sand-0; Solids-2; Chls-68000; Calc-800; Bit-#5; S/N-RR; Size-7 7/8; MFG-W/M; Type-63CF; Jets-14/14/13; In-4809; Out-4987; Ftg-178; Hrs-14 3/4; FPH-12.1; T/B/G-1/1/In; WOB-45K; RPM-60; BHA-723; Liner-5 1/2; Stroke-16; SPM-49; Press-1000; GPM-290; NV-216; AV-273/192; Dev-1 @ 4937; Time Break Down -1 3/4 hrs-Drlg TD @ 8:45am (CST) 6-13-95; 1 hr-Circl; 1/4 hr-Drop totco; 6 1/2 hrs-TOH (Strap TD @ 4987') 13 1/2 hrs-Logging (Log TD @ 4992') 1 hr-Prep to run csg.
DMC \$240 TMC \$6,476
DWC \$6,108 CWC \$142,133

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Drilling and Operation Summary
Sheep Draw Federal #6

06/15/95 Day 18 - Depth-4987; Opr-Rigging Down; Time Break Down; 1 hr-RU to run csg; 5 3/4 hrs-run 115 jts 5 1/2" csg; 1/2 hr-RU cementers; 1/2 hr- Circ csg; 1 hr-Cemd csg PD @ 2:52 pm (MST) 6-14-95; 1 1/4 hr-Drop bomb-open tool & circ 115 sks to pit; 4 3/4 hrs-Circ between stages w/rig pmp; 1hr-Cmt 2nd stage PD @ 10:10pm (MST) 6-14-95; 2 1/2 hrs-Set slips - Cut off & install tbg head (20.43' cut off); 1 3/4 hr-Jet pits - ND - Released rig @ 2:00 am (MST) 6-15-95; 4 hrs-Rigging down.

Cement Report:

1st Stage - Pmp 10 bbls H₂O spacer, 10 bbls Ch/100, 10 bbls H₂O spacer, 10 bbls D75, 10 bbls H₂O, 385 sks 50/50 Poz/H w/5#/sk D44 (salt), 3% D60 (Flac), 2.5#/sk B.28 (Xpand), 1/4#/sk D29 (Cellflk) & .2% D46 (Defoam). Mixed @ 14.4#/gal & 1.31 yd. Displaced w/40 bbls FW & 79 bbls mud (1bbl over). Did not pmp plug. Ck flts (OK) Plug dn @ 2:52pm (MST) 6-14-95. Drop opening bomb. Opened DV tool w/700 psi. Circ 115 sks to pit. Cir w/rig pmp til 2nd stage.

2nd Stage - Pmp 10 bbls H₂O, 10 bbls Ch/100, 10 bbls H₂O, 10 bbls D75, 10 bbls H₂O, 180 sks 63/35 C/Poz w/6% D20 (Gel) & 1/4"/sk D29 (Celloflk) Mixed 13.2 #/Gas & 1.75 yd. Mixed 430 sks 50/50 Poz/H w/5# sks D44 (salt), .3% D46 (Defoam), Mixed @ 14.4#/gal & 1.31 yd.

Displaced w/81 bbls FKG. Closed OK. Plug dn # 10:10 pm (MST) 6-14-95. Circ 64 sks to pit. Set castus slips w/67,000#. ND BOP. NU 11-3 x 7 1/16-3000 tbg head. Test head to 2000 (OK) Install flange cap. Release rig @ 2:00 am (MST) 6-15-95. Will move to Quahada 31 Federal #4 later today, should spud 17 1/2" hole in pm (late). 5 1/2" Csg & Cement Report: Ran all 5 1/2" 15.5#/ft; K-55; LT/C 8rd Csg. 1-5 1/2" Gemco FS (1.10); Set @ (4985.9-4987); 5 1/2" K55 Csg (Sd Blst) (39.38) Set @ 4946.52-4985.9); 5 1/2" Gemco FC (1.03); Set @ (4945.49-4946.52); 5 1/2" K55 Csg (Sd Blst) (1579.26) Set @ (3366.23-4945.49); 5 1/2" Gemco DV tool (2.5) Set @ (3363.73-3366.73); 5 1/2" K55 Csg (Sd Blst) (10.46.99) Set @ 2316.74-3363.73); 5 1/2" K55 Csg (Mill Finish) (2333.73) Set @ (-16.99-2316.74). Ran 10 centerlizers & 10 turbolizers on csg spaced out.

*Note: Dropped & bent pin on jt #77 (44.34).

DMC \$0	TMC \$6,476
DWC \$69,590	CWC \$211,723

06/30/95 Oper-RU for completion. MIRU L & R plg unit. SDFN. NOTE: Called FAA/Carlsbad Airport for MI (OK). Have red blinking light on top of rig.

DMC \$0	TMC \$6,476
DWC \$2,250	CWC \$213,973

07/01/95 Oper-Drill out DV & clean to flt; Formation-Delaware test. ND flange & NU BOP. GIH w/4 3/4" WM mill tooth bit, 4 3 1/2 DC (121.98') & 100 jts 2 7/8" tbg. Tagged @ 3364'. RU Davis rev unit & drl cmt & DV eq to 3368'. Circ clean. Test csg to 1000 psi/30 min, OK. Continued in hole to 4922'. Drl cmt & plug to 4943'. Circ hole clean. Pull 2 jts & SI & SDF holidays. No reports for 7-2, 7-3, 7-4, & 7-5. NOTE: Unloaded 158 jts (5162.66') 2 7/8" J-55 tbg.

DMC \$0	TMC \$6,476
DWC \$20,630	CWC \$234,603

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Formation-Delaware. POOH w/bit & collars. Lay dn collars. GIH w/bit, 5 ½" csg scraper on tbg to 3363'. Work scraper through DV area. Continue in hole to 4900'. RU Howco & circ hole w/2% KCL. Spot 250g 7 ½% NE-FE. POOH. RU Wedge Wireline. Run CBL-G/R-CCL from 4942' (PBTD) up to 1500' (Press up to 500 psi to run Bond Log). GIH w/4" csg guns & perf @ 4868-4876 (SPF-17 holes). RD Wedge. GIH w/Baker Model 'R' 2.25 SN, & tbg to 4735'. RU Howco & pmp 6 bbls via Annulus. Set pkr @ 4735'. Press back side to 400 psi. RU on tbg. Start breakdown of perfs. Perfs broke @ 1800 psi. Put acid away @ 2 bpm @ 1000 psi. ISIP-775; 5 min SIP-730. RD Howco & RU to swab. IFL-surf. FFL-4000. Rec 23 bbls . 17 bbls to rec. SI & SDFN.

CWC \$241,343

Opr-Swab/Acidize & swab; Formation-Delaware 4868-4876; SITP-450 (acid gas). RU to swab. IFL-3200. Made 3 runs & swab dry. Wait ½ hr. Made run & no fld entry. RU Howco & Acidized perfs @ 4868-76 w/750g 7 ½% NE-FE w/35 ball sealers. Avg inj rate-3 BPM @ 1050; Had good ball action & balled out to 3100 psi. Bled off & put acid away @ 3 BPM @ 1040. ISIP-783; 5 min SITP-763; RD Howco (TOTAL LOAD 53 bbls). Bled off press & RU to swab. IFL-Surf. FFL-SN. Well swab dry in 6 runs. Wait 1 hr & had 200' entry. Waited 1 hr & had 50' entry. Wait 1 hr & had 50' entry. Total rec 33 bbls w/no shows. Total load to rec-20 bbls SWI & SDFN.

CWC \$246,898

Opr-Swab/Prep to frac; Formation-Delaware 4868-4876; SITP-400# (14 1/2 bbls). Bled dn to pit. Good gas. RU swab. IFL 3400'. Pulled from SN. Rec 1200' of fld. 1st 50' oil & remaining 1150' acid wtr. Rec 5 bbls w/gas throughout. 2nd run fld @ 4600'. Rec 100' w/trace of oil. Wait 1 hr between swabs. 3rd & 4th run fld @ 4650'. Rec 25' each run w/trace of oil. Total rec of 6 bbls. BLWR-14 bbls. Gas flare between swabs all morning. SWI & SDFN.

CWC \$248.208

Opr-Frac & flowback; Formation-Delaware 4868-4876; SITP-540# (Good gas) (20 hrs). Bled dn to pit. RU swab. IFL 3400'. Made 2 runs & well swab dry. Wait ½ hr & make swab run-dry. RU Howco to frac w/14,000g Boragel G 3190 w/22,700# 16/30 sd & 4000# 16/30 Super LC @ 8 BPM. *Well would not take 3#/g stage. Frac w/total sd of 8100# 16/30 sd & all 4000# 16/30 Super LC. Avg rate 8 BPM; Avg press-2260; Max press-2860; ISIP-1050; 5 min-1015#; 10 min-930#; & 15 min-883; SI for 10 hrs. BLWTR-352; Open well for flowback. TP-510. Open on 3/8" ck. Flowed all night & died @ 7:00 am. Rec 60 bbls (No shows) BLWTR-292.

CWC \$260,283

Opr-Swabbing bac frac; Formation-Delaware 4868-4876; TP-0 Heading; RU swab. IFL-surf; Rec 176 bbls FFL-2000' & scattered. 116 bbls to rec. After 120 bbls rec. Gas started to show. Also wtr turned a dark color. After 150 bbls rec. oil. Cut started to show (1-2% cut) Took wtr samples to Howco; 2:00 PM sample-Rw @ 70° -0.06 KCL-2%; S_pGr-1.113, ph-7.1; Ca-16279, Mg-3032; Cl-100,000, SO₄-200; HCO₃-305, Fe-100; 7:00 PM sample-Rw @ 70° -0.06 KCL-2%; S_pGr-1.1306, ph-7.0; Ca-19365, Mg-3612; Cl-116,000, SO₄-400; HCO₃-305, Fe-200; SWI & SDFN. Rec 116 BLWR; BLWTR-116.

CWC \$262.123

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07/11/95 Opr-Swabbing back frac; Formation-Delaware 4868-4876; SITP-450# (12 hrs), Bled dn gas. RU to swab. IFL-1300' (1st run had 40% oil) swabbed 15 bbls & well kicked off flowing. Flowed 15 bbls & died. Continued swabbing. FFL-3500' & scattered. Had gas flowing continuously. (Unable to establish a rate). Rec 122 BLWR in 27 runs; BLWTR-0. *(Note 6 bbls over load). SWI & SDFN.
DMC \$0 TMC \$6,476
DWC \$1,960 CWC \$264,083

07/12/95 Opr-Swabbing back frac; Formation-Delaware 4868-4876; SITP-480# (15 hrs), Bled dn gas. RU to swab. IFL-1000' (1st run had 50% oil) Made 1 run & well kicked off flowing. Flowed back for 20 min & died. Continue swabbing. FFL-3400' & scattered. Had gas flowing continuously. Still maintaining 5% oil cut. Rec 72 bbls of formation wtr in 21 runs; *(Note 66 bbls over load). SWI & SDFN.
DMC \$0 TMC \$6,476
DWC \$1,640 CWC \$265,723

07/13/95 Opr-Moving to new zone; Formation-Delaware; SITP-520# (17 hrs), Blew dn gas. RU Howco & Circ hole w/2% KCL. Unset pkr & POOH. RU Wedge & GIH w/CIBP. Set @ 4830'. Dump 15' of sd on CIBP. New PBD @ 4815'. Test to 500 psi. Held ok. Perf new zone @ 2672-2700'. (2 SPF-28 ft & 57 holes). RD Wedge. GIH w/Model "R" pkr, SN (2 1/4") & tbg to 2710'. Spot 250g 7 1/2% NEFE. Pull pkr up to 2612' & set press backside to 500 psi-ok. Start break dn of perfs. Broke @ 1250'. Acidized w/2250g 7 1/2% NEFE & 100 ball sealers. Avg-3.1 BPM @ 900 psi; Min-3 @ 715; Max-Ballout @ 2150 psi w/95 balls on. Surge & finish flush. ISIP-600; 5 min-568; 10 min-547. BLWTR-93 bbls. RU swab. IFL-Surf. FFL-2500. Rec 16 bbls in 7 runs. 77 BLWTR. SI & SDFN.
DMC \$0 TMC \$6,476
DWC \$8,819 CWC \$274,542

07/14/95 Opr-Swab test; Formation-Delaware; SITP-30# (Acid gas) RU to swab IFL-1700' (50% oil cut) 2nd run swab dry. Make hourly swab runs. Having 50' of entry per hour w/40% oil cut. Rec total of 5 bbls (w/40% oil cut avg) BLWTR-72; SI & SDFN.
DMC \$0 TMC \$6,476
DWC \$1,385 CWC \$275,927

07-15-95 SITP-30#; Bled dn & RU swab. IFL-1500'; Rec bbls (60% Oil) RU kill truck & load tbg. Unset pkr & POOH. RU Wedge Wireline & set CIBP @ 2740. GIH w/ tbg & spot 1500# 20/40 sd @ CIBP. Tag plug @ 2655'. Press test plug. 1/4 BPM @ 2000 psi (OK). POOH. GIH & perf Delaware @ 2540-60' 20' 2 SPF w/41 holes. SWI & SDFN.
DMC \$0 TMC \$6,476
DWC \$6,835 CWC \$282,762

07-16-95 SITP-SI blow. GIH w/Model R pkr, SN & 2 7/8" tbg to 2560'. RU Howco & spot 250g 7 1/2% HCL. Pull pkr to 2435'. Set & test breakdn new perfs. Broke @ 1450. Acidized w/1000g 7 1/2% & 75 ball sealers. Avg-2 3/4 BPM @ 800; Max 3.2 @ 900; Fair ball action. No ballout. ISIP-586; 5 min-536; 10 min-490; Unset pkr & GIH to ck sd. Tagged @ 2655. Pull pkr back to 2435 & set & test. RU Howco to frac perfs 2540-60 w/15,000g G3110.5 Borate Gel & 29,500# 16/30 & 12,800# 16/30 (Resin Cured) Avg rate-12 BPM @ 1150; Max 1375 @ 12 BPM. Final 12 BPM @ 1300. ISIP-700; 5 min-604; 10 min-574; 15 min 552 psi. SWI overnight.
BLWTR-476
DMC \$0 TMC \$6,476
DWC \$17,913 CWC \$300,675

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07-17-95	SITP-0; (17 hrs) RU swab. IFL-Surf. Made 10 runs & sd was noticed & oil cut appeared. Made 11 more runs & sd was still in fld. SWI. Rec 100 bbls. FFL 400'. Had 5% oil cut. SWI due to sd. (Note: Sd looks like 20/40). Rec 100 BLW BLWTR-376 DMC \$0 TMC \$6,476 DWC \$1,590 CWC \$302,265	
07-18-95	SITP-40; Bled off to pit. RU kill truck & open by-pass on pkr & circ tbg clean. Unset pkr & POOH. GIH open ended w/2 1/4" SN & 2 7/8" tbg to 2571. Circ sd out of hole to CIBP @ 2740. (Note: Circ out both frac sd & plug back sd). 169' of fill (84' after frac). Pull tbg to 2430'. RU to swab. IFL-Surf. Made 49 runs. FFL-1300. Rec 228 bbls. Had oil cut after 60 bbls rec. Carrying 5-10% Oil cut in the afternoon. SI & SDFN. Rec 228 BLW BLWTR-148 DMC \$0 TMC \$6,476 DWC \$3,889 CWC \$306,154	
07-19-95	SITP-50 psi; SICP-Slight blow; RU to swab. IFL-100; FFL-1300'. Made 68 runs & rec 268 bbls w/good 10% oil cut. SI & SDFN. Rec 268 BLW BLWTR-0; 120 bbls over load. DMC \$0 TMC \$6,476 DWC \$1,735 CWC \$307,889	
07-20-95	SITP-50 psi; SICP-Slight blow; RU to swab. IFL-600; (1st run had 80% oil). Made 2 runs. FFL-300'. Rec 8 bbls (5 oil & 3 wtr). GIH w/tbg & tag CIBP @ 2740' (no fill). POOH. RU Baker sd line drl & knock CIPB from 2740' to 4815'. GIH w/1-27.23' MA, 1-4' perf sub, 1-2 7/8" x 2 1/4 SN, 10jts-2 7/8" tbg, Gibco TAC (40K shear) & 74 jts-2 7/8" tbg. Set TAC, btm of MA @ 2789'; SN @ 2758' & TAC @ 2426'. ND BOP & NU 7 1/16-3M x 2 7/8-3M adapter & pmp tee. RD & release all rental equip. DMC \$0 TMC \$6,476 DWC \$2,235 CWC \$310,124	
07/21/95 thru 07/26/95	Waiting on pmping unit. DMC \$0 TMC \$6,476 DWC \$0 CWC \$307,889	