submitted in lieu of Form 3160-5

**UNITED STATES**
**DEPARTMENT OF THE INTERIOR**
**BUREAU OF LAND MANAGEMENT**

RECEIVED BLM
97 OCT 27 PM 2:42
070 FARMINGTON NM

Sundry Notices and Reports on Wells

1. **Type of Well**
GAS

2. **Name of Operator**
BURLINGTON RESOURCES OIL & GAS COMPANY

3. **Address & Phone No. of Operator**
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. **Location of Well, Footage, Sec., T, R, M**
992'FNL, 1653'FEL, Sec.8, T-30-N, R-10-W, NMPM

5. **Lease Number**
SF-077754A

6. **If Indian, All. or Tribe Name**

7. **Unit Agreement Name**

8. **Well Name & Number**
**Kelly B #1**

9. **API Well No.**
30-045-09752

10. **Field and Pool**
Blanco Mesaverde

11. **County and State**
**San Juan Co, NM**

12. **CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

| Type of Submission | Type of Action | |
|---|---|---|
| _X_ Notice of Intent | ___ Abandonment | ___ Change of Plans |
| | ___ Recompletion | ___ New Construction |
| ___ Subsequent Report | ___ Plugging Back | ___ Non-Routine Fracturing |
| | ___ Casing Repair | ___ Water Shut off |
| ___ Final Abandonment | ___ Altering Casing | ___ Conversion to Injection |
| | _X_ Other - Pay add - abandon lower Mesaverde | |

13. **Describe Proposed or Completed Operations**

It is intended to add the Lewis formation to the subject well according to the attached procedure and wellbore diagram. The lower Mesaverde formation will be abandoned.

RECEIVED
NOV - 3 1997
OIL CON. DIV.
DIST. 3

14. **I hereby certify that the foregoing is true and correct.**

Signed Peggy Bradfield (JLDopps) Title Regulatory Administrator Date 10/22/97

(This space for Federal or State Office use)
APPROVED BY /S/ Duane W. Spencer Title _____ Date OCT 30 1997
CONDITION OF APPROVAL, if any:

NMOCD

# Kelly B #1

Lewis Pay Add Procedure
Unit B, Section 8, T30N, R10W
Lat: 36° - 49.83306 min./Long: 107° - 54.16074 min.

***Abandon the lower Mesaverde openhole and complete the Lewis. The Lewis will be sand fracture stimulated in three 100,000 lbs 20/40 sand stage using a 60Q 30 lb crosslinked gel for transport. A total of 300,000 lbs of sand will be utilized.***

1. Inspect location and test rig anchors, if necessary. Comply with all NMOCD, BLM, Forestry & BR rules and regulations. Dig flowback pit or set flowback tank. Haul to location an inspected 4450', 2-3/8" production string, a 4350', 3-1/2" N-80 frac string, and 3, 400 bbl frac tanks.

2. Fill Tank #1 with 400 bbls 2% KCL water. Blow well down and kill with 2% KCL water as necessary. ND WH and NU BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line.

3. Attempt to TOOH with 2-3/8" Mesaverde production string set at ± 5268'. If tubing is stuck, estimate where it is stuck using stretch calculations. Run gauge to 5000'. Wireline jet cut tubing at 5000'. Continue to TOOH and LD. Send string in to be inspected and salvaged, if possible.
4. PU and RIH with a 6-1/4" bit, 7" (23 lb/ft) casing scraper on the inspected 2-3/8" production string. Clean out to 4450' with air. TOOH.

5. RIH with a 7" CR on the 2-3/8" tubing. Set CR at 4450'. PT tubing to 2000 psi using the CR stinger configuration. RU cementing contractor. Establish an injection rate through the CR. Squeeze the lower Mesaverde openhole with 320 sx class B cement (100% excess). Sting out of CR, spot 2 sx cement on CR and reverse circulate tubing clean. RD cementing contractor.

6. Roll the hole clean with 2% KCL water. TOOH 2-3/8" production string. PT CR and casing to 1000 psi. If casing doesn't hold pressure, isolate hole and contact Jennifer Dobson at ext. 4026 for squeeze procedure.

7. MIRU logging company. Run GR-CBL-CCL from PBTD to 500' with 1000 psi surface pressure. Run GR-DSNL from PBTD to 3400'. Evaluate CBL and send log copies to production and drilling. Top of good cement must be above 3500' to continue.

**LOWER LEWIS**

8. Fill Tank #2 and Tank #3 with 481 bbls 2% KCL water. If necessary, filter all water to 25 microns. These two tanks are for the frac gel fluid. Add water to Tank #1 for the breakdown as necessary.

9. PU and TIH with 2-3/8 production string and spot 400 gals 15% HCL acid across lower Lewis perf interval 4100-4300'. TOH slowly for 5 stands. TOOH. Stand 2-3/8" tubing to side of where 3-1/2" tubing will stand.

   All acid on this well to contain the following additives per 1000 gals.

| | | |
|---|---|---|
| 2 gal | CI-22 | Corrosion inhibitor |
| 5 gal | Ferrotrol-300L | Iron Control |
| 1 gal | Flo-back 20 | Surfactant |
| 0.5 gal | Clay Master-5C | Clay control |

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10. Contact Jennifer Dobson at ext. 4026 for exact Lewis perforations. RU wireline services. RIH with 3-1/8" select fire carrier guns loaded with Owens 3125306P HSC 12 gm charges set at 1 SPF. (Av. perf diameter - 0.30", Av. pen. -17.48" in concrete). Perf the lower Lewis from top down. RD wireline services.

11. PU and RIH with 7" packer, tubing tester and 3-1/2" frac string. Set packer at 3900'.

12. RU stimulation company. Hold a tailgate safety meeting. Pressure test surface treating lines to 4600 psi. Breakdown lower Lewis with 1000 gals 15% HCL acid. Drop 2, 7/8" 1.3 sp gr RCN perf balls per perforation. Evenly space throughout the job for diversion. Attempt to ball off to 3600 psi. Use same acid additives as in Step 9. RD stimulation company.

13. Release packer and lower to 4300' to knock off perf balls. Pull packer back uphole to 4000' and set. PT frac string to 6500 psi.

14. RU stimulation company. Hold tailgate safety meeting. Pressure test surface lines to 7000 psi. Frac lower Lewis down the 3-1/2" N-80 frac string with 44,000 gals of 60 quality foam using 30 lb crosslinked gel as the base fluid and 100,000 lbs 20/40 Arizona sand. Pump at 50 BPM. Monitor surface treating pressures, rate, foam quality and sand concentration with computer van. Sand laden fluid is to be tagged with 3 radioactive tracers. Max pressure is 6500 psi and estimated treating pressure is 6041 psi. Treat per the following schedule:

| Stage | Downhole Foam Volume (gals) | Clean Gel Volume (gals) | N2 Volume (MSCF) | Sand Volume (lbs) |
|---|---|---|---|---|
| Pad | 9,000 | 3,600 | 93.37 | --- |
| 1.0 ppg | 5,000 | 2,000 | 51.87 | 5,000 |
| 2.0 ppg | 5,000 | 2,000 | 51.88 | 10,000 |
| 3.0 ppg | 15,000 | 6,000 | 155.64 | 45,000 |
| 4.0 ppg | 10,000 | 4,000 | 103.76 | 40,000 |
| Flush | 1,450 | 580 | 15.05 | 0 |
| **Totals** | **45,450** | **18,180** | **471.56** | **100,000** |

Treat frac fluid with the following additives per 1000 gals:

* 0.38 lbs XCIDE-207 — Bactericide to be mixed in tanks.
* 30 lbs GW-27 — Guar gelling agent to be mixed in tanks.
* 5.0 gals FAW-1 — Foaming agent to be mixed on fly.
* 2.5 gals BF-7L — Buffering agent to be mixed in tanks.
* 1.0 lbs ULTRA PERM CRB — Gel breaker to be mixed on fly.
* 1.0 lbs GBW-5 — Gel Breaker to be mixed in last 3,998 gals.
* 1.0 gals FLO-Back 20 — Non-ionic Surfactant mix in full tank.
* 1.0 gals XLW-30 — Crosslinker to be mixed on fly.
* 1.0 gals ENZYME G — Enzyme breaker to be mixed on fly.

Treat flush fluid with the following additives per 1000 gals:

* 0.38 lbs XCIDE-207 — Bactericide to be mixed in tanks.
* 30 lbs GW-27 — Guar gelling agent to be mixed in tanks.
* 5.0 gals FAW-1 — Foaming agent to be mixed on fly.
* 2.5 gals BF-7L — Buffering agent to be mixed in tanks.
* 1.0 gals FLO-Back 20 — Non-ionic Surfactant mix in full tank.

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| | |
|---|---|
| * 1.0 lbs GBW-5 | Gel Breaker to be mixed in last 798 gals. |
| * 1.0 gals ENZYME G | Enzyme breaker to be mixed on fly. |

RDMO stimulation company.

15. Flow well back after 30 minutes to 1 hour through a choke manifold at 20 BPH or less if sand is observed. After the well has cleaned up and pressures allow, release packer and TOOH.

16. PU and RIH with 7" RBP, packer and 2-3/8" tubing. Set RBP at 4090'. Release packer from RBP and PUH. Set packer just above RBP and pressure test RBP to 3200 psi (75% of casing yield). Trickle 1 sack of sand and soap down tubing. Allow sand to settle.

**MIDDLE LEWIS**

17. Fill Tank #2 and Tanks #3 with 480 bbls 2% KCL water. If necessary, filter all water to 25 microns. These two tanks are for the frac gel fluid. Add water to Tank #1 for the breakdown as necessary.

18. Release the packer and spot 380 gals 15% HCL acid across middle Lewis perf interval 3900-4080'. TOH slowly for 5 stands. TOOH. Stand 2-3/8" tubing beside 3-1/2" tubing.

All acid on this well to contain the following additives per 1000 gals.

| | | |
|---|---|---|
| 2 gal | CI-22 | Corrosion inhibitor |
| 5 gal | Ferrotrol-300L | Iron Control |
| 1 gal | Flo-back 20 | Surfactant |
| 0.5 gal | Clay Master-5C | Clay control |

19. Contact Jennifer Dobson at ext. 4026 for exact Lewis perforations. RU wireline services. RIH with 3-1/8" select fire carrier guns loaded with Owen 3125306P HSC 12 gm charges set at 1 SPF. (Av. perf diameter - 0.30", Av. pen. -17.48" in concrete). Perf the middle Lewis from top down. RD wireline services.

20. TIH with 7" packer and 3-1/2" frac string. Set packer at 3700'.

21. RU stimulation company. Hold a tailgate safety meeting. Pressure test surface treating lines to 4600 psi. Breakdown middle Lewis with 1000 gals 15% HCL acid. Drop 2, 7/8" 1.3 sp gr RCN perf balls per perforation. Space evenly throughout the job for diversion. Attempt to ball off to 3600 psi. Use same acid additives as in Step 18. RD stimulation company.

22. Release packer and lower to 4080' to knock off perf balls. Pull packer uphole to 3800' and set.

23. RU stimulation company. Hold a tailgate safety meeting. Pressure test surface lines to 7000 psi. Frac middle Lewis down the 3-1/2" N-80 frac string with 44,000 gals of 60 quality foam using 30 lb crosslinked gel as the base fluid and 100,000 lbs 20/40 Arizona sand. Pump at 55 BPM. Monitor surface treating pressures, rate, foam quality and sand concentration with computer van. Sand laden fluid is to be tagged with 3 radioactive tracers. Max pressure is 6500 psi and estimated treating pressure is 6268 psi. Treat per the following schedule:

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1998 Priority Lewis Recompletion
Lat: 36° ' 49.83306 min./Long: 107° ' 54.16074 min.

| Stage | Downhole Foam Volume (gals) | Clean Gel Volume (gals) | N2 Volume (MSCF) | Sand Volume (lbs) |
|---|---|---|---|---|
| Pad | 9,000 | 3,600 | 87.67 | --- |
| 1.0 ppg | 5,000 | 2,000 | 48.71 | 5,000 |
| 2.0 ppg | 5,000 | 2,000 | 48.71 | 10,000 |
| 3.0 ppg | 15,000 | 6,000 | 146.13 | 45,000 |
| 4.0 ppg | 10,000 | 4,000 | 97.42 | 40,000 |
| Flush | 1,380 | 550 | 13.44 | 0 |
| **Totals** | **45,380** | **18,150** | **442.08** | **100,000** |

Treat frac fluid with the following additives per 1000 gals:

| | |
|---|---|
| * 0.38 lbs XCIDE-207 | Bactericide to be mixed in tanks. |
| * 30 lbs GW-27 | Guar gelling agent to be mixed in tanks. |
| * 5.0 gals FAW-1 | Foaming agent to be mixed on fly. |
| * 2.5 gals BF-7L | Buffering agent to be mixed in tanks. |
| * 1.0 lbs ULTRA PERM CRB | Gel breaker to be mixed on fly. |
| * 1.0 lbs GBW-5 | Gel Breaker to be mixed in last 3,998 gals. |
| * 1.0 gals FLO-Back 20 | Non-ionic Surfactant mix in full tank. |
| * 1.0 gals XLW-30 | Crosslinker to be mixed on fly. |
| * 1.0 gals ENZYME G | Enzyme breaker to be mixed on fly. |

Treat flush fluid with the following additives per 1000 gals:

| | |
|---|---|
| * 0.38 lbs XCIDE-207 | Bactericide to be mixed in tanks. |
| * 30 lbs GW-27 | Guar gelling agent to be mixed in tanks. |
| * 5.0 gals FAW-1 | Foaming agent to be mixed on fly. |
| * 2.5 gals BF-7L | Buffering agent to be mixed in tanks. |
| * 1.0 gals FLO-Back 20 | Non-ionic Surfactant mix in full tank. |
| * 1.0 lbs GBW-5 | Gel Breaker to be mixed in last 798 gals. |
| * 1.0 gals ENZYME G | Enzyme breaker to be mixed on fly. |

RDMO stimulation company.

24. Flow well back after 30 minutes to 1 hour through a choke manifold at 20 BPH or less if sand is observed. After the well has cleaned up and pressures allow, release packer and TOOH.

25. PU and RIH with 7" RBP, packer and 2-3/8" tubing. Set RBP at 3890'. Release packer from RBP and PUH. Set the packer just above RBP and pressure test RBP to 3200 psi (75% of casing yield). Trickle 1 sack of sand and soap down tubing. Allow sand to settle.

**UPPER LEWIS**

26. Fill Tank #2 and Tanks #3 with 480 bbls 2% KCL water. If necessary, filter all water to 25 microns. These two tanks are for the frac gel fluid. Add water to Tank #1 for the breakdown as necessary.

27. Release the packer and spot 380 gals 15% HCL acid across upper Lewis perf interval 3700-3880'. TOH slowly for 5 stands. TOOH. Stand 2-3/8" tubing beside 3-1/2" tubing.

All acid on this well to contain the following additives per 1000 gals.

| | | |
|---|---|---|
| 2 gal | CI-22 | Corrosion inhibitor |
| 5 gal | Ferrotrol-300L | Iron Control |

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| | | |
|---|---|---|
| 1 gal | Flo-back 20 | Surfactant |
| 0.5 gal | Clay Master-5C | Clay control |

28. Contact Jennifer Dobson at ext. 4026 for exact Lewis perforations. RU wireline services. RIH with 3-1/8" select fire carrier guns loaded with Owen 3125306P HSC 12 gm charges set at 1 SPF. (Av. perf diameter - 0.30", Av. pen. -17.48" in concrete). Perf the upper Lewis from top down. RD wireline services.

29. TIH with 7" packer and 3-1/2" frac string. Set packer at 3500'.

30. RU stimulation company. Hold a tailgate safety meeting. Pressure test surface treating lines to 4600 psi. Breakdown upper Lewis with 1000 gals 15% HCL acid. Drop 2, 7/8" 1.3 sp gr RCN perf balls per perforation. Space evenly throughout the job for diversion. Attempt to ball off to 3600 psi. Use same acid additives as in Step 27. RD stimulation company.

31. Release packer and lower to 3880' to knock off perf balls. Pull packer uphole to 3600' and set.

32. RU stimulation company. Hold a tailgate safety meeting. Pressure test surface lines to 7000 psi. Frac upper Lewis down the 3-1/2" N-80 frac string with 44,000 gals of 60 quality foam using 30 lb crosslinked gel as the base fluid and 100,000 lbs 20/40 Arizona sand. Pump at 55 BPM. Monitor surface treating pressures, rate, foam quality and sand concentration with computer van. Sand laden fluid is to be tagged with 3 radioactive tracers. Max pressure is 6500 psi and estimated treating pressure is 6011 psi. Treat per the following schedule:

| Stage | Downhole Foam Volume (gals) | Clean Gel Volume (gals) | N2 Volume (MSCF) | Sand Volume (lbs) |
|---|---|---|---|---|
| Pad | 9,000 | 3,600 | 83.93 | --- |
| 1.0 ppg | 5,000 | 2,000 | 46.63 | 5,000 |
| 2.0 ppg | 5,000 | 2,000 | 46.63 | 10,000 |
| 3.0 ppg | 15,000 | 6,000 | 139.90 | 45,000 |
| 4.0 ppg | 10,000 | 4,000 | 93.27 | 40,000 |
| Flush | 1,315 | 525 | 12.26 | 0 |
| **Totals** | **45,315** | **18,125** | **422.62** | **100,000** |

Treat frac fluid with the following additives per 1000 gals:

| | |
|---|---|
| * 0.38 lbs XCIDE-207 | Bactericide to be mixed in tanks. |
| * 30 lbs GW-27 | Guar gelling agent to be mixed in tanks |
| * 5.0 gals FAW-1 | Foaming agent to be mixed on fly. |
| * 2.5 gals BF-7L | Buffering agent to be mixed in tanks. |
| * 1.0 lbs ULTRA PERM CRB | Gel breaker to be mixed on fly. |
| * 1.0 lbs GBW-5 | Gel Breaker to be mixed in last 3,998 gals. |
| * 1.0 gals FLO-Back 20 | Non-ionic Surfactant mix in full tank. |
| * 1.0 gals XLW-30 | Crosslinker to be mixed on fly. |
| * 1.0 gals ENZYME G | Enzyme breaker to be mixed on fly. |

Treat flush fluid with the following additives per 1000 gals:

| | |
|---|---|
| * 0.38 lbs XCIDE-207 | Bactericide to be mixed in tanks. |
| * 30 lbs GW-27 | Guar gelling agent to be mixed in tanks. |
| * 5.0 gals FAW-1 | Foaming agent to be mixed on fly. |

| | |
|---|---|
| * 2.5 gals BF-7L | Buffering agent to be mixed in tanks. |
| * 1.0 gals FLO-Back 20 | Non-ionic Surfactant mix in full tank. |
| * 1.0 lbs GBW-5 | Gel Breaker to be mixed in last 798 gals. |
| * 1.0 gals ENZYME G | Enzyme breaker to be mixed on fly. |

RDMO stimulation company.

33. Flow well back after 30 minutes to 1 hour through a choke manifold at 20 BPH or ess if sand is observed. After the well has cleaned up and pressures allow, release packer and TOOH. LD 3-1/2" frac string and packer.

34. TIH with RBP retrieving head on 2-3/8" tbg and CO with air/mist to RBP at 3890'. **Take pitot gauges when possible.** When well is sufficiently clean, retrieve the RBP at 3890' and TOOH. LD RBP.

35. TIH with RBP retrieving head on 2-3/8" tbg and CO with air/mist to RBP at 4090'. **Take pitot gauges when possible.** When well is sufficiently clean, retrieve the RBP at 4090' and TOOH. LD RBP.

36. RIH with notched collar on 2-3/8" tubing and tag sand fillup. If sand fill up is present within 100' of bottom perf, clean out to PBTD (~4430'). Monitor gas and water returns when applicable.

37. When wellbore is sufficiently clean, TOH and RU Pro-Technics. Run After-Frac log from PBTD-3600'. RD Pro-Technics.

38. RU Blue Jet. Run Perforation Efficiency log from 4300-3700'. RD Blue Jet.

39. Squeeze to cover Ojo Alamo as necessary.

40. Rabbit and TIH with a standard SN one joint off bottom and remaining 2-3/8" tubing. Tag PBTD for sand fill up. If needed, circulate sand off bottom with air. Land tubing at approximately 3820'. ND BOP. NU WH. Obtain final water and gas samples and flow rates. Contact Production Operations for well tie-in. RDMO.

Recommended: _____
Production Engineer

Approved: R Lu Lugnta 10/21/97
Drilling Superintendent

Approved: _____ 10/2/97
Team Leader

VENDORS:

| | | |
|---|---|---|
| Wireline: | Blue Jet | 325-5584 |
| Fracturing: | BJ Services | 327-6222 |
| RA Tag: | Pro-Technics | 326-7133 |
| Treesaver: | WSI | 327-3402 |

JLD

# Kelly B #1
## Pertinent Data Sheet
## Lat: 36° - 49.83306 min.
## Long: 107° - 54.16074 min.

**General Well Information:**

Location: 992 FNL, 1653 FEL, Unit B, Section 8, T30N, R10W, San Juan County, NM.

| | | | |
|---|---|---|---|
| Federal Lease #: | 077754 | DP #: | 49116A |
| Property #: | 012576400 | GWI/NRI: | 50.00/41.75 |
| Current Field: | Blanco Mesaverde | | |
| Spud: | 2/13/55 | Completed: | 3/14/55 |
| GL Elevation: | 6301' | KB Elevation: | 6311' |
| TD: | 5308' | PBTD: | 5308' |

**Casing Record:**

| Hole Size | Csg Size | Weight | Grade | Depth Set | Cmt Vol | Cmt Top |
|---|---|---|---|---|---|---|
| 12-1/4" | 9-5/8" | | Spiral Weld | 172' | 125 sx | Circ. to sur. |
| 8-3/4" | 7" | 20 lb/ft<br>23 lb/ft | J-55<br>J-55 | 0-4045'<br>4045-5080' | 500 sx | 2820' (TS) |

**Tubing Record:**

| Tubing Size | Weight | Grade | Depth Set | Number of Jts |
|---|---|---|---|---|
| 2-3/8" | N/A | N/A | 5268' | 169 |

**Other Downhole Equipment:**

| Classification | Depth Set | Number of Jts |
|---|---|---|
| BH Spring | 5290' | |

**Formation Tops:**

| | | | | | |
|---|---|---|---|---|---|
| Ojo Alamo: | 1598' | Pictured Cliffs: | 2925' | Menefee: | 4698' |
| Kirtland Shale: | 1652' | Lewis Shale: | 2965' | Point Lookout: | 5148' |
| Fruitland: | 2554' | Cliff House : | 4525' | Mancos: | 5288' |

**Logging Record:** Gamma Ray Log (3/14/55), Electrical Log (3/10/55), Induction Log (3/14/55), Temperature Log (3/14/55), Micro Log (3/10/55)

**Completion:** Drilled as an openhole Mesaverde producer (5080-5308'). Sand oil frac'd with 16,700 gals #2 diesel and 17,800 lbs sand at 9.6 BPM and a maximum pressure of 1200 psi.

**Workover History:** None performed since original completion.

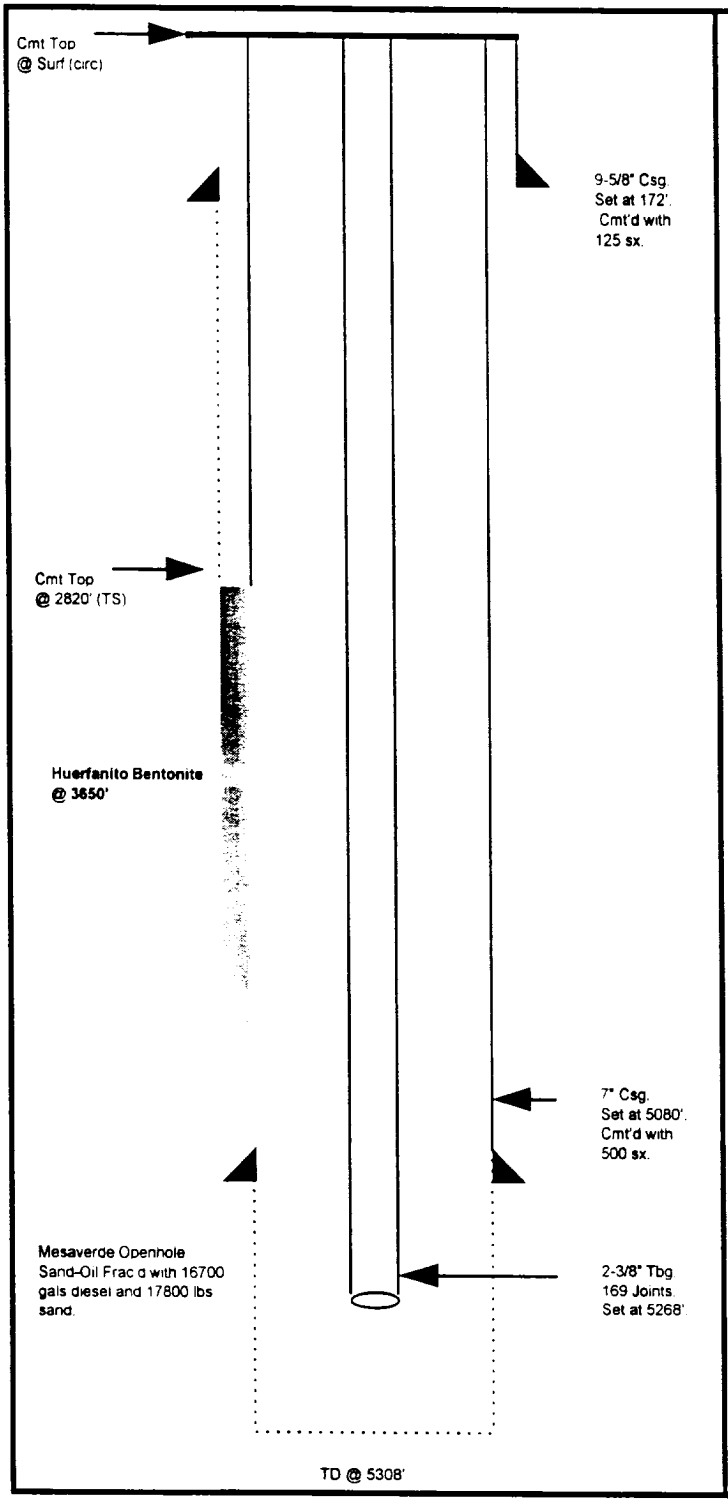
**Production History:** Currently producing ~50 MCFD.

**Pipeline:** EPNG (LP = 225 psi)

# Kelly B #1

**Unit B, Section 8, T30N, R10W**
**San Juan County, NM**

## Current Schematic




## Proposed Schematic