submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
97 FEB 25 PM 1:29
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**
1650'FNL, 1754'FEL, Sec.16, T-27-N, R-4-W, NMPM
G

5. **Lease Number**
SF-080674

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

7. **Unit Agreement Name**
San Juan 27-4 Unit

8. **Well Name & Number**
San Juan 27-4 U #71

9. **API Well No.**
30-039-20724

10. **Field and Pool**
Blanco MV/Basin DK

11. **County and State**
Rio Arriba 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	
	_X_ Recompletion	___ New Construction	
___ Subsequent Report	_X_ Plugging Back	___ Non-Routine Fracturing	
	___ Casing Repair	___ Water Shut off	
___ Final Abandonment	___ Altering Casing	___ Conversion to Injection	
	_X_ Other - abandon Dakota		

13. Describe Proposed or Completed Operations

It is intended to recomplete the subject well in the Mesaverde formation according to the attached procedure and wellbore diagram. The Dakota formation will be plugged and abandoned.

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MAR 24 1997
OIL CON. DIV.
DIST. 3

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

Signed Peggy Bradfield (SCWPUD) Title Regulatory Administrator Date 2/25/97

(This space for Federal or State Office use)
APPROVED BY /s/ Duane W. Spencer Title _____ Date MAR 20 1997
CONDITION OF APPROVAL, if any:

NMOCD

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form
Revised February 21
Instructions o
Submit to Appropriate District
State Lease - 4
Fee Lease - 3

☐ AMENDED RE

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
0-039-20724	72319/71599	Blanco Mesaverde/Basin Dakota

⁴ Property Code	⁵ Property Name	⁶ Well Number
7452	San Juan 27-4 Unit	71

⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	7195'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	16	27-N	4-W		1650	North	1754	East	R.A.

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
MV-E/320 DK-E/320			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDA
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16

Not resurveyed, prepared from a plat by David O. Vilven dated 6-28-68.

1650'

1754'

16

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DIST. 3

¹⁷ OPERATOR CERTIFICA

I hereby certify that the information contained he true and complete to the best of my knowledge a

Peggy Bradfield

Signature

Peggy Bradfield

Printed Name

Regulatory Administr

Title

2-25-97

Date

¹⁸ SURVEYOR CERTIFICA

I hereby certify that the well location shown on t was plotted from field notes of actual surveys ma or under my supervision, and that the same is tr correct to the best of my belief.

2/21/97

Date of Survey

Signature and Seal of Professional Surveyor:

NEALE C. EDWARDS
NEW MEXICO
6857
REGISTERED PROFESSIONAL SURVEYOR

Certificate Number

Date: 2/4/97

Burlington Resources - Mesaverde Initial Completion
Lat-Long: 36° 34' 33"- 107° 15' 8"

General Well Data:

Well Name: San Juan 27-4 Unit #71
Location: Unit G, Section 16, T27N, R04W, 1650' FNL, 1754' FEL
County, State: Rio Arriba County, New Mexico
Field: Blanco Mesaverde / Basin Dakota
Formation: Mesaverde / Dakota

Project Objective:

Recomplete Mesaverde PUD in existing Dakota wellbore. The Dakota will be permanently abandoned. Current Dakota production is 0 MCFD. Anticipated initial Mesaverde production 703 MCFD.

Equipment and Material Requirements:

Deliver the following equipment to location:

1. 8700' of 2-3/8" 4.7# J-55 tubing
2. Ten (10) - 400 bbls frac tanks to be spotted and filled w/ 2% KCL
3. 4-1/2" wellhead isolation tool (2 jts of 2-7/8 6.5# J-55 tubing and 4-1/2" packer)
4. 3-7/8" bit/mill
5. Six 3-1/8" drill collars

Below are materials required for fracture stimulations:

		Mesaverde		
1.	Fluid Type	25# Borate Gel		
2.	Stages	Two		
3.	Acid Volume	65		bbls
4.	Fluid Volume 2% KCL	2,797		bbls
5.	Sand Type	Arizona		
6.	Sand Size	20/40	40/70	
7.	Sand Volume	180,000	20,000	#'s

Run fluid tests on water. Filter water based on Stimulation company solids water analysis. Contact Production Engineering and discuss stimulation water source and quality. Fill frac tanks w/ 3# biocide/tank & 2% KCL water. Put one load of fresh water in each tank before adding 20% concentrated KCL water. Set Location proppant container and fill with sand.

Workover Procedure:

1. Hold safety meeting. MIRU completion rig. Place fire and safety equipment in strategic locations. Comply with all MOI, BLM, and NMOCD rules and regulations. Record all tubing, casing, and bradenhead, and line pressures. RU flowlines. Blowdown tbg and csg.

2. Kill well down tubing if necessary. ND wellhead. Replace any failed valves or seals on wellhead. NU BOP's and stripping head.

3. TOOH with 502' of 1-1/2", 2.9#, 10rnd tubing. Send to town for salvage.

4. **Plug #1 (Dakota, 8212' - 8524'):** PU 4-1/2" cement retainer on 2-3/8" tubing. TIH and set retainer at 8262'. Pressure test tubing to 1000 psi; replace all bad joints as necessary. Load 4-1/2" casing with water down backside. Pressure test casing (annulus) to 1000 psi. Mix 46 sxs of class B cement. Squeeze Dakota perforations below retainer with 40 sxs of cement (100% excess). Sting out of retainer and spot 6 sxs of cement above retainer (50% excess).

5. **Plug #2 (Gallup, 7217' - 7317'):** TOOH to 7317'. Mix 12 sxs of class B cement and spot 100' cement plug (50% excess) across Gallup from 7217' to 7317'. Reverse circulate tubing clean. Load hole bottoms up. TOOH to 6750'.

6. **Plug #3 (PBTD, 6750'-6650'):** Mix 8 sxs of class B cement and spot 100' cement plug for PBTD from 6750' to 6650'. Reverse circulate tubing clean. Load hole bottoms up. TOOH.

7. Pressure test casing to 1000 psi with rig pump for 15 minutes.

8. MIRU wireline. RIH with CBL/CCL/GR log. Under 1000 psi, log from 6600' to 200' above TOC. Cement bond required from 6550' to 5730'. POOH. RD wireline.

9. XO to 2-7/8" pipe rams and slips. PU 4-1/2" packer on 2 jts of 2-7/8" tubing. TIH and set packer @ 60'. RU acid truck company. Pressure test casing to 3000 psi for 15 min (63% of burst). Unseat packer and TOOH. Contact engineering with results. If casing held pressure notify stimulation company that well is ready to be frac'd.

Point Lookout Fracture Stimulation (1st Stage):

10. XO to 2-3/8" pipe rams and slips. PU 2-3/8" tubing and TIH. Spot 5 bbls of 15% HCL (Add 2/1000 gallons corrosion inhibitor to acid) from 6500' to 6175'. TOOH.

11. NU wireline company. Under a lubricator , RIH with 3-1/8" HSC casing gun. Select fire perforate Point Lookout **Top Down** with 1 SPF, 0.29" diameter, 18" penetration, 12 gram charges (Owen, 306T) at the following depths:

6263,	6273,	6281,	6287,	6298,	6316,	6323,	6332,	6353,	6359,
6366,	6376,	6389,	6391,	6396,	6398,	6411,	6418,	6420,	6425,
6447,	6449,	6471,	6484,	6486					

(17 total Intervals, 25 total holes, 223' of gross interval)

POOH and ND wireline. Inspect casing gun to ensure all perforations fired.

12. XO to 2-7/8" pipe rams and slips. PU 4-1/2" packer on 2 jts of 2-7/8" tubing. TIH and set packer @ 60'. NU stimulation company. Pressure test surface lines to 4000 psi. Prepare to breakdown perforations. Pump into perforations to establish injection rate at maximum pressure of 3000 psi. Record breakdown pressure and rate and ISIP. **Note: Calculate the number of perforations open at beginning of the job. If 90% (or more) of the holes calculate to be open, pump acid but do not drop balls. Be prepared to continue right into frac job.** If less then 90% of holes are open proceed to next step. If an injection rate of > 5 BPM can be established, prepare to balloff.

13. Begin balloff. Pump 25 bbls of 15% HCL (Add 2/1000 gallons corrosion inhibitor to acid.) and flush with 2% KCL at maximum rate pressure will allow. Drop a total of 50, 7/8" 1.3 SG RCN ball sealers spaced evenly throughout job. Maximum pressure at balloff is 3000 psi. ND stimulation company. Unseat packer and TOOH.

14. NU wireline company. Under lubricator, RIH with 4-1/2" junk basket to recover ball sealers. Run basket by perforations several times to ensure maximum ball recovery. POOH and ND wireline company. Record number of hits and balls recovered.

15. PU 4-1/2" packer and reset @ 60'. NU stimulation company. Hold safety meeting. Pressure test surface lines to 4000 psi. Maximum surface treating pressure during frac is 3000 psi. Fracture stimulate Point Lookout interval per attached schedule at 40 BPM, with 10,000 #'s 40/70 sand and 90,000 #'s of 20/40 Arizona sand and 1403 bbls of 25# borate gel (Delta Frac). Quick flush at 4 ppg with 2% KCL. Flush with 97 bbls of 2% KCL to 100' of top perforation. Cut pump rate throughout flush as pressure will allow. Shutdown and record ISIP, 5, 10, and 15 min shut-in pressures. ND stimulation company. Unseat packer and TOOH.

16. NU wireline company. Under and lubricator RIH with 4-1/2" CIBP and set @ 6228'. POOH. ND wireline company. PU 4-1/2" packer on 2 jts of 2-7/8" tubing and set @ 60'. RU stimulation company. Pressure test CIBP to 3000 psi for 15 min. Record results. Unseat packer and TOOH.

Menefee and Cliff House perforating and fracture stimulation (2nd Stage):

17. XO to 2-3/8" pipe rams and slips. PU 2-3/8" tubing and TIH. Spot 8 bbls of 15% HCL (Add 2/1000 gallons corrosion inhibitor to acid.) from 6225' to 5725'. TOOH.

18. NU wireline company. Under a full lubricator , RIH with 3-1/8" HSC casing gun. Select fire perforate the Menefee and Cliff House **Top Down** with 1 SPF, 0.29" diameter, 18" penetration, 12 gram charges (Owen, 306T) at the following depths:

5780,	5835,	5864,	5882,	5890,	5897,	5910,	5954,	5962,	5977,
5982,	5987,	5990,	6033,	6130,	6135,	6167,	6169,	6184,	6188,
6191,	6202,	6205							

(17 total Intervals, 23 total holes, 425' of gross interval)

POOH and ND wireline. Inspect casing gun to ensure all perforations fired.

19. XO to 2-7/8" pipe rams and slips. PU 4-1/2" packer on 2 jts of 2-7/8" tubing. TIH and set packer @ 60'. NU stimulation company. Pressure test surface lines to 4000 psi. Prepare to breakdown perforations. Pump into perforations to establish injection rate at maximum pressure of 3000 psi. Record breakdown pressure and rate and ISIP. **Note: Calculate the number of perforations open at beginning of the job. If 90% (or more) of the holes calculate to be open, pump acid but do not drop balls. Be prepared to continue right into frac job.** If less then 90% of holes are open proceed to next step. If an injection rate of > 5 BPM can be established, prepare to balloff.

20. Begin balloff. Pump 25 bbls of 15% HCL (Add 2/1000 gallons corrosion inhibitor and 1/1000 gallons surfactant to acid.) and flush with 2% KCL at maximum rate pressure will allow. Drop a total of 46, 7/8" 1.3 SG RCN ball sealers spaced evenly throughout job. Maximum pressure at balloff is 3000 psi. ND stimulation company. Unseat packer and TOOH.

21. NU wireline company. Under lubricator, RIH with 4-1/2" junk basket to recover ball sealers. Run basket by perforations several times to ensure maximum ball recovery. POOH and ND wireline company. Record number of hits and balls recovered.

22. PU 4-1/2" packer and reset @ 60'. NU stimulation company. Hold safety meeting. Pressure test surface lines to 4000 psi. Maximum surface treating pressure during frac is 3000 psi. Fracture stimulate Cliff House / Menefee interval per attached schedule at 40 BPM, with 10,000 #'s of 40/70 sand and 90,000 #'s of 20/40 Arizona sand and 1394 bbls of 25# borate gel (Delta Frac). Quick flush at 4 ppg with 2% KCL. Flush with 88 bbls of 2% KCL to 500' of top perforation. Cut pump rate throughout flush as pressure will allow. Shutdown and record ISIP, 5, 10, and 15 min shut-in pressures. RD stimulation company. Unseat packer and TOOH. XO to 2-3/8" pipe rams and slips.

23. PU 3-7/8" bit and six drill collars on 2-3/8" tubing. Clean out to CIBP set and 6228'. Obtain **15 min** pitot gauge, zone does not have to totally cleaned up. Drill out CIBP at 6228'. Clean out to PBTD of 6600'. Cemet plug set at 6650'. Clean up to less then 5 BPH water and trace of sand. Obtain stabilized pitot

gauges at 15, 30, 45, and 60 min for the Mesaverde interval. Record on WIMS report. TOOH. Lay down bit and drill collars.

24. TIH with one joint of 2-3/8", 4.7# J-55 tubing with expendable check, a seat-nipple, and the remaining 2-3/8" tubing. Land tubing at +/- 6490. Broach tubing while running in hole to seat-nipple with sandline. POOH

25. ND BOP's. NU Tree and manifold assembly. Pump off expendable check. Make swab run to kick well off if needed. Obtain stabilized pitot gauges at 15, 30, 45, and 60 min for the entire well. Record on WIMS report. SI well. RD and MOL.

Compiled By: Sean Woolverton 2/18/97
S. C. Woolverton
Production Engineer

Approval: 2/18/97 2/18/97
Regional Engineer Drilling Superintendent

Engineers -

Sean Woolverton
Office - (326-9837)
Home - (326-4525)
Pager - (326-8931)

James A. Smith
Office - (326-9713)
Home - (327-3061)
Pager - (324-2420)

Frac Consultants

Mark Byars
Pager - (327-8470)
Mobile - (320-0349)
Home - (327-0096)

Mike Martinez
Pager - (599-7429)
Mob - (860-7518)
Home - (326-4861)

VENDORS:

	SERVICE COMPANY	PHONE NUMBER
CASED HOLE:	TBA	
STIMULATION:	Halliburton	325-3575

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BURLINGTON RESOURCES
2/4/97:DLA

PERTINENT DATA SHEET

SAN JUAN 27-4 UNIT #71

Location: 1650' FNL, 1754' FEL
Unit G, Section 16, T27N, R4W
Rio Arriba County, New Mexico
Field: Blanco Mesaverde/Basin Dakota
TD: 8532'
PBTD: 8524'
Spud Date: 08-04-73
Completion Date: 10-11-73

Elevation: 7195' GL
LAT: 36° 34' 33"
LONG: 107° 15' 8"
DP#: 44034A - DK
35618A - MV
GWI: 83.02% (DK)
NRI: 68.56% (DK)
GWI: 84.66% (MV)
NRI: 70.04% (MV)

Casing Record:

Hole Size	Casing Size	Weight & Grade	Depth Set	Sxs Cmt	Cement Top
13-3/4"	9-5/8"	32.3#, H-40	228'	190 (225 ft3)	surface
8-3/4"	7"	20#, KS (135 jts)	0-3952'	147 (307 ft3)	3360' (TS)
		23 #, KS (13 jts)	3952-4371'		
6-1/4"	4-1/2"	10.5#, KS (212 jts)	0-6445'		
		11.6#, N-80 (17 jts)	6445-7975'		
		11.6#, KS (49 jts)	7975-8532'	354 (651 ft3)	3950' (TS)
		Float collar @ 8524'			

Tubing Record:

Tubing Size	Weight & Grade	Depth Set	BHA
1-1/2"	2.9#, J-55	502'	SN @ 468'

Formation Tops:

Mesaverde	5768'	Gallup	7267'	Graneros	8258'
Pt. Lookout	6253'	Greenhorn	8198'	Dakota	8382'

Logging Record:
FDC-GR / IGR / Temp Survey

Stimulation:
05/1996: Treated DK w/1033 bbl 40# X-Link gel, 58,000# 20/40 super DC sand / Perf'd @ 8460', 8462', 8464', 8466', 8468', 8484', 8488', 8490', 8492', 8494', 8496', 8498', w/2 JSPF
09/1973: Treated DK w/60,000# sand & 64,000 gal water / Perf'd @ 8312', 8394', 8422', 8424', 8468', 8500', 8502', w/1 SPZ

Workover History:
05-16-96: Pay add. See stimulation above. 1-1/2", 2.9# J-55 tbg set @ 502'
11-01-75: Pulled 1-1/2" tbg, ran 4-1/2" retainer, & set retainer @ 8446' KB. Ran in 1-1/2" tbg & landed @ 8401' KB.
12-18-74: Pulled 1-1/2" tbg & ran 4-1/2" bridge plug. Set @ 8482' KB. Ran 257 jts 1-1/2", 2.9#, K-55 EUE tbg & landed @ 8434' KB.

Production History:

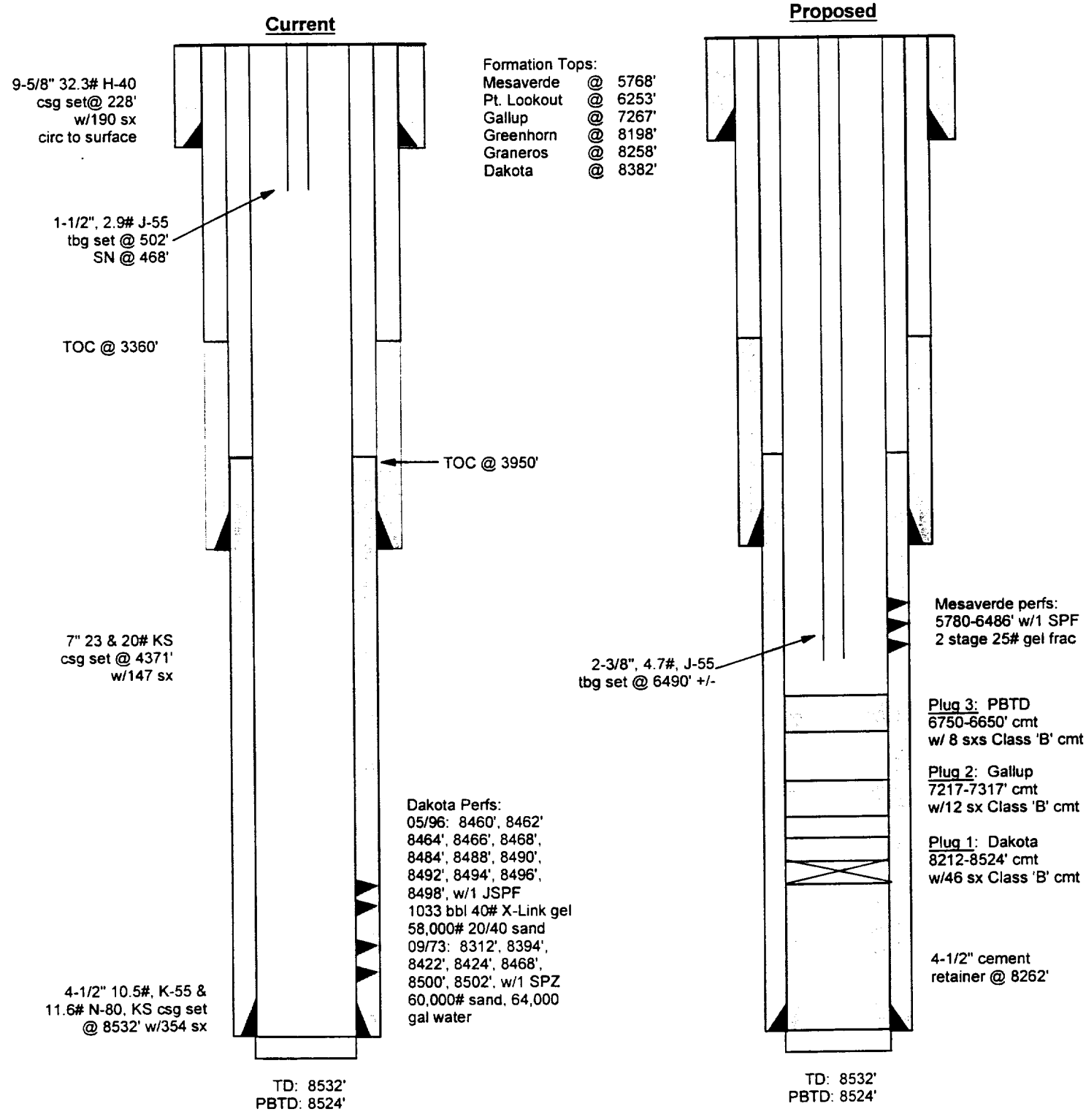
Latest Deliverability	0 MCFD	0 BOPD
Initial Deliverability	287 MCFD	ISIP: 2572 (csg) 1134 (tbg)
Cums:	191 MMCF	1.1 MBO

Transporter:
Oil/Condensate: Giant Gas: El Paso

San Juan 27-4 Unit #71

Blanco Mesaverde/Basin Dakota

Unit G, Section 16, T27N, R4W
Rio Arriba County, NM
Elevation: 7195' GL
LAT: 36° 34' 33" / LONG: 107° 15' 8"
date spud: 08-04-73



BURLINGTON RESOURCES
02/05/97: dla