submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

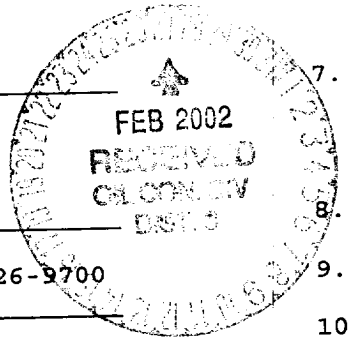
Sundry Notices and Reports on Wells

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**
1510'FNL, 2100'FWL, Sec.14, T-31-N, R-12-W, NMPM



5. **Lease Number**
NMSF077652

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

7. **Unit Agreement Name**

8. **Well Name & Number**
East #7F

9. **API Well No.**
30-045-30438

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

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
	_X_ Recompletion	___ New Construction
___ Subsequent Report	___ Plugging Back	___ Non-Routine Fracturing
	___ Casing Repair	___ Water Shut off
___ Final Abandonment	___ Altering Casing	___ Conversion to Injection
	_X_ Other - commingle	

13. **Describe Proposed or Completed Operations**

It is intended to recomplete the subject well to the Mesaverde formation according to the attached procedure and wellbore diagram. The Mesaverde and Dakota formations will be commingled. A down hole commingle application will be applied for.

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

Signed Peggy Cole Title Regulatory Supervisor Date 2/20/02

TLW

(This space for Federal or State Office use)

APPROVED BY /s/ Jim Lovato Title _____ Date _____

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCD

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045- 30438	71599 / 72319	Basin Dakota/Blanco Mesaverde

[4] Property Code	[5] Property Name	[6] Well Number
18517	EAST	7F

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	BURLINGTON RESOURCES OIL & GAS INC.	6276

[10] Surface Location

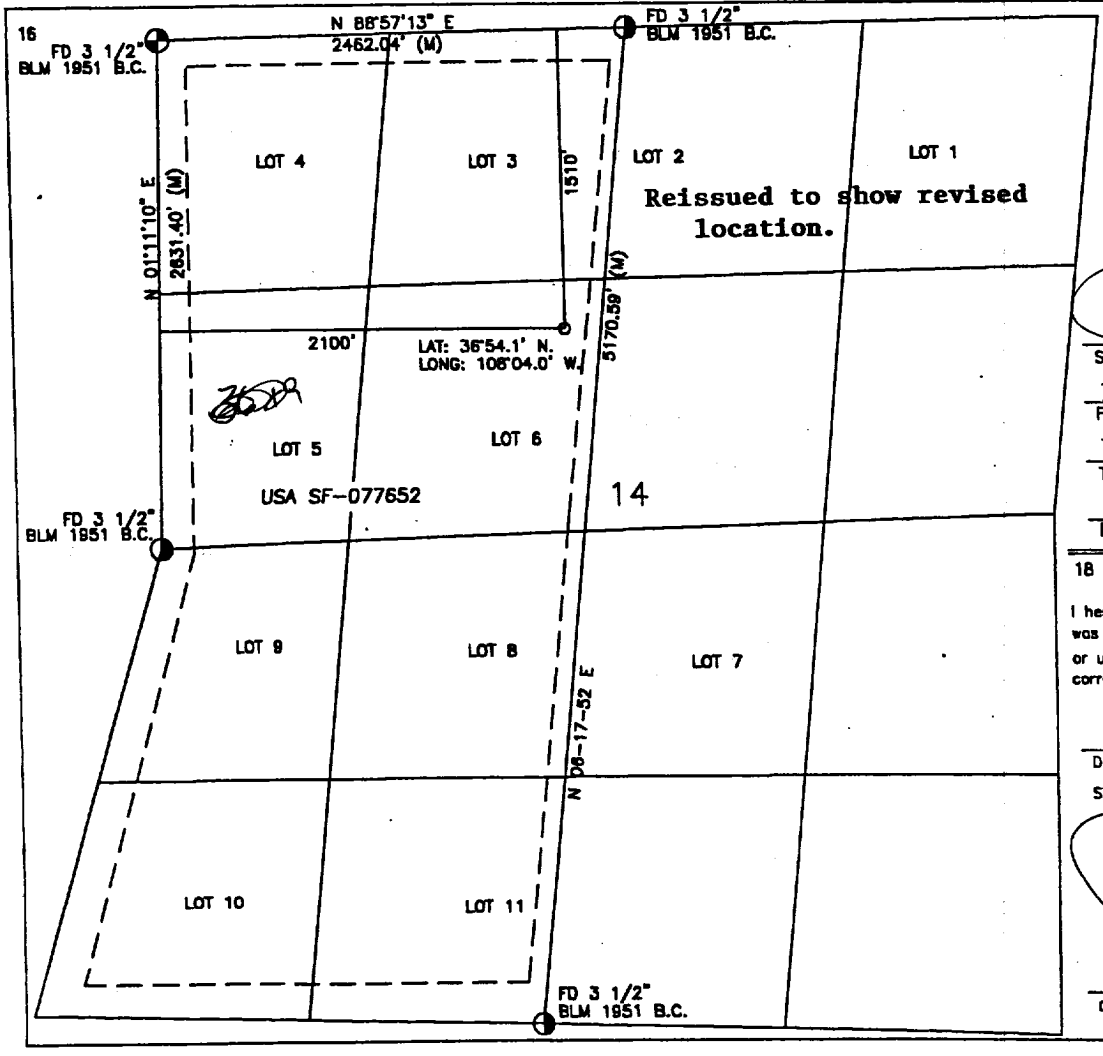
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	14	31-N	12-W		1510	NORTH	2100	WEST	SAN JUAN

[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.
W/282.06 280.06			

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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature

Peggy Cole
Printed Name

Regulatory Supervisor
Title

2-20-02
Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

10-17-01
Date of Survey

Signature and Seal of Professional Surveyor:

ROY A. RUSH
NEW MEXICO
8894
REGISTERED PROFESSIONAL LAND SURVEYOR

8894
Certificate Number

PROJECT OBJECTIVE:

- The Dakota interval was completed in July 2001. This is a MV payadd.
- A CIBP will be set above the Dakota interval. Then, the Mesaverde will be completed in one (1) slickwater frac stages.
- The stimulation work will be performed rigless. The Dakota interval will be restored to production and one string of tubing will be landed.

STIMULATION:

- Cased hole GR/CBL previously run June 4, 2001. TOC found at +/-2910' (per CBL).
- Maximum Treating Pressure: 4100 psi (~85% of Burst of 10.5#, 4.5", J-55 casing)

Deliver to location following equipment:

1.	Nine (9) - 400 bbl Frac Tanks.
2.	MBIT for wellhead isolation during the frac
3.	One CIBP, One Frac plug

Below are materials required for the proposed 2 Stage fracture stimulation:

	PTLO/MN	LEWIS
Fluid Type	Slickwater	20# 75Q Foam
Stages	One	One
Acid Volume (HCL)	40 bbls	30 bbls
Fluid Volume 2% KCl	2537 bbls	731 bbls
Sand Type	Arizona	Arizona
Sand Size	20/40 – 100,000#	20/40 – 200,000#

WELL SITE PREPARATION

1. Hold pre-job meeting with rig supervisor, engineers, frac consultant, wireline company, stimulation company, and other key vendors to review procedure.

2. Run fluid tests on water. Filter water based upon stimulation company solids water analysis. Contact Production Engineer and discuss stimulation water source and quality. Inspect wellsite, verify and report wellhead size and pressure rating. Mark location with flagging for tank spotting. Spot nine (9) frac tanks and fill 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.

3. MIRU completion rig. ND wellhead. NU BOPs. POOH w/ 2-3/8" production tubing (240 joints, seating nipple on bottom). Inspect all joints. Replace bad joints, if necessary. Utilize MBT for pressure testing and frac. Check pressure ratings on complete wellhead to ensure all fittings are rated to at least 5000 psi.

4. MIRU wireline company. Under a lubricator, RIH with CIBP and set at 5480'. POOH and ND wireline

5. MIRU stimulation company. Pressure test surface lines to 1000 psi above maximum treating pressure. Pressure test CIBP to maximum treating pressure for 15 minutes. Pressure test casing and frac valve to maximum treating pressure for 15 minutes. Record results. Ensure all personnel are clear of wellhead before pressure testing. Note: Isolation tool not required. Bleed off pressure. ND stimulation company.

POINT LOOKOUT/LOWER MENEFEE PERFORATING AND FRACTURE STIMULATION

6. MIRU wireline company. Under lubricator, RIH with 3-1/8" HSC casing gun. While holding 2000 psi on casing, select fire perforate Point Lookout and Menefee with 1 & 2 SPF, 0.28" diameter, 20.4" penetration, 10 gram charges (Owen 302) at the following depths:

Following Lower Point Lookout at **2 spf, 120° Phasing:**									
5339	5317	5303	5286	5273	5253				
Following Massive Point Lookout at **1 spf:**									
5224	5205	5197	5172	5167	5147	5140	5104	5072	5011
5007	4948	4931	4922	4915	4891	4886	4871	4862	4829
4797	4772	4764							
(29 Effective holes, 35 Total holes, 6 settings at 2 spf and 23 settings at 1 spf, 575' of gross interval)									

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

7. NU stimulation company. Pressure test surface lines to 1000 psi above maximum treating pressure. Prepare to breakdown perforations. Pump into perforations to establish injection rate at maximum treating pressure. Record breakdown pressure, rate and ISIP. If an injection rate cannot be established, RIH w/ 50' of acid dump bailer filled with 28% HCl and spot across bottom perforations. If an injection rate of 4 –20 BPM was established prepare to balloff. If an injection rate of 20 BPM or greater was established, pump acid at the maximum rate the pressure or equipment will allow, whichever is reached first. Begin by pumping 25 bbls 15% HCL acid followed by stimulation design pad fluid.

8. Balloff procedure (if necessary). Pump 25 bbls of 15% HCl (Add 2/1000 gallons corrosion inhibitor) and flush with 2% KCl at maximum rate pressure will allow. Drop two 7/8" 1.3 SG RCN ball sealers for every perforation, spaced evenly throughout the acid. Maximum pressure at balloff is maximum treating pressure. ND stimulation company.

9. NU wireline company (if necessary). 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. NU stimulation company.

10. Hold safety meeting. Pressure test surface lines to 1000 psi above maximum treating pressure. Maximum pressure during fracture stimulation is not to exceed maximum treating pressure. Fracture stimulate the Point Lookout/Menefee interval per attached schedule at 50 BPM, with 100,000#'s of 20/40 Arizona sand. Increase injection rate above scheduled rate if pressure and equipment will allow ensuring maximum fluid

diversion. Furthermore, it is acceptable to reduce the total fluid volume of this stage by +/- 400 bbls if water on location is limited. Add 0.0 to 0.5/1000 gals friction reducer as needed and no surfactant. Flush with 2% KCl once all the 2.0 ppg sand has cleared the blender tub. Flush to within 50' of top perforation. Calculate displacement to spot 15 bbls of 15% HCl across next interval. Cut rate throughout flush as pressure allows. Shut down and record ISIP, 5, 10, 15 min shut-in pressures. ND stimulation company.

11. NU wireline company. Under a lubricator, RIH with frac plug and set at 4170'. POOH and ND wireline.

12. NU stimulation company. Pressure test surface lines 1000 psi above maximum treating pressure. Pressure test frac plug to maximum treating pressure for 15 minutes. **Note:** Pressure **may** bleed **slowly** past the frac plug during the pressure test. Notify the engineer or drilling department if pressure bleeds more than 500-psig in 15 minutes. Bleed off pressure. ND Stimulation company.

LEWIS (OTERO/NAVAJO CITY) PERFORATING AND FRACTURE STIMULATION (2ND STAGE):

13. NU wireline company. Under lubricator, RIH with 3-1/8" HSC casing gun. While holding 2000 psi on casing, select fire perforate Lewis with 1 SPF, 0.28" diameter, 20.4" penetration, 10 gram charges (Owen 302) at the following depths:

3885	3891	3893	3895	3897	3899	3901	3906	3908	3910
3912	3914	3916	3924	3926	3928	3930	3974	3976	3978
3980	3982	3987	3989	3991	4012	4014	4048	4050	4056
4058	4060	4062	4064	4066	4080	4082	4084	4086	4088
(40 total holes, 203' of total gross interval)									

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

14. NU stimulation company. Pressure test lines to 1000 psi above maximum treating pressure. Prepare to breakdown perforations. Pump into perforations to establish injection rate at maximum treating pressure. Record breakdown pressure, rate and ISIP. Do not displace all acid outside perforations. If operations are suspended for night, leave 5 bbls inside casing to work on perforations overnight. If an injection rate of > 5 BPM can be established, prepare to balloff. If an injection rate cannot be established, set CIBP above the frac plug at 4170'. RIH w/ 50' of acid dump bailer filled with 15% HCl and spot acid across bottom perforations.

15. **Begin balloff.** Pump 30 bbls of 15% HCl and flush with 2% KCl at maximum rate pressure will allow. Drop two 7/8" 1.3 SG RCN ball sealers for every perforation, spaced evenly throughout the acid. Maximum pressure at balloff is maximum treating pressure. ND stimulation company.

16. 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. NU stimulation company.

17. Hold safety meeting. Pressure test surface lines to 1000 psi above maximum treating pressure. Maximum pressure during fracture stimulation is not to exceed maximum

treating pressure. Fracture stimulate the Lewis interval per attached schedule at 45 BPM BH foam rate, with 200,000 #'s of 20/40 Arizona sand. **Increase injection rate above scheduled rate if pressure and equipment will allow.** Flush with N_2 foam once 3.0 ppg BH sand has cleared the blender to 200' above top perforation. Cut rate throughout flush as pressure allows. Shut down, ND and release stimulation company.

18. Rig up to flow back Lewis until well dies or completion rig moves on location utilizing a BR dual-flowbean choke manifold and the following schedule for the first 24 hours only. Begin flow back when stimulation company is rigged down. Open well to pit in accordance to flowback schedule listed in the table below. Do not shut well in during flowback. When schedule dictates a larger choke size, open ball valve upstream of 2nd flowbean and place correct size flowbean on manifold to pre-determined size listed in table and begin flowing through 2nd flowbean. Close ball valve upstream of positive flow bean and change out flow bean to next larger size in table. Open ball valve upstream of positive flow bean and begin flowing. Close ball valve upstream of 2nd flowbean or adjustable choke. flow back while waiting on completion rig.

24-hour Flowback

16/64" Choke	FROM SHUT-IN – UNTIL 2/3 OF FLUSH VOLUME HAS BEEN RECOVERED.
10/64" Choke	Approximately 2 hrs.
12/64" Choke	Approximately 2 hrs.
14/64" Choke	Approximately 2 hrs.
16/64" Choke	Approximately 2 hrs.
18/64" Choke	Approximately 2 hrs.
20/64" Choke	Approximately 2 hrs.
22/64" Choke	Approximately 2 hrs.
24/64" Choke	Approximately 2 hrs.
32/64" Choke	Approximately 3 hrs.
48/64" Choke	Approximately 5 hrs.

NOTE: Follow this schedule to utilize a 24-hour flowback. If well begins to slug or make large amounts of sand to surface, drop to next lower choke size. If well begins to taper off in liquid production (mostly N_2), change to next larger choke size before time schedule dictates.

WELLBORE CLEAN OUT, AND LAND TUBING

Deliver to location the following equipment:

1.	500' 2-3/8", 4.7#, J-55, EUE workstring / production tubing
2.	One rig tank filled w/ 2% KCl
3.	3-7/8" bit/mill and bit sub
4.	Six 3-1/8" drill collars (if necessary)

***Note: Attempt to minimize the use of kill fluid on the wellbore during cleanout/landing operations.**

19. Hold safety meeting. Place fire and safety equipment in strategic locations. Comply with all BR, BLM, and NMOCD rules and regulations.

20. PU 3-7/8" bit/mill on 2-3/8" tubing. Strap and rabbit tubing. Stage in hole to frac plug at 4170'. Drill frac plug at 4170' with 10-12 BPH mist rate.

21. Continue TIH to CIBP set at 5480'. Clean up to less then 5 BPH water and trace of sand. Obtain stabilized pitot gauge and record on DFW report when water rates are less than 5 BPH and sand volumes are acceptable

22. Drill CIBP at 5480' with 10-12 BPH mist rate. Continue cleaning out to PBTD depth of 7501'. Clean up to less then 5 BPH water and trace of sand. Obtain stabilized pitot gauge and record on DFW report when water rates are less than 5 BPH and sand volumes are acceptable, TOOH & LD bit.

23. MU expendable check, SN, one joint of 2-3/8" tubing, one 2' pup joint and the remaining 2-3/8" tubing. Broach tubing while RIH. Check for fill. Clean out to PBTD. Land tubing @ +/- 7420' maintaining a minimum of 60' of rat hole.

24. ND BOPs. 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 DFW report. **During cleanout operations the reservoir may be charged with air. As a result of excess oxygen levels that may be in the reservoir and/or wellbore, contact the Lease Operator to discuss the need for determining oxygen levels prior to returning the well to production.** SI well. RD and MOL.

Engineers								
Laura Nofziger			**James Erlandson**			**Sean Corrigan**		
Office	326-9765		Office	599-4010		Office	326-9812	
Home	326-1790		Home	327-9168		Home	324-2028	
Pager	327-8667		Pager	949-2642		Pager	324-4208	

Frac Consultants:			
Mark Byars		**Mike Martinez**	
Pager	327-8470	Pager	599-7429
Mobile	320-0349	Mobile	320-7473
Home	327-0096	Home	327-6161

Production Dept:				
		Office	**Pager**	**Cellphone**
Lease Operator	Toby Young		324-7617	320-2738
Production Foreman	Ken Raybon	326-9804	320-2559	320-0104
Specialist	Mick Ferrari		326-8865	320-2508

VENDORS:				
		SERVICE COMPANY		**PHONE NUMBER**
CASED HOLE:		Basin		327-5244
STIMULATION:				
FRAC VALVE:		District Tools		
FREEPOINT/STRING SHOT:		Wireline Specialties		327-7141
TRACER SURVEY:				

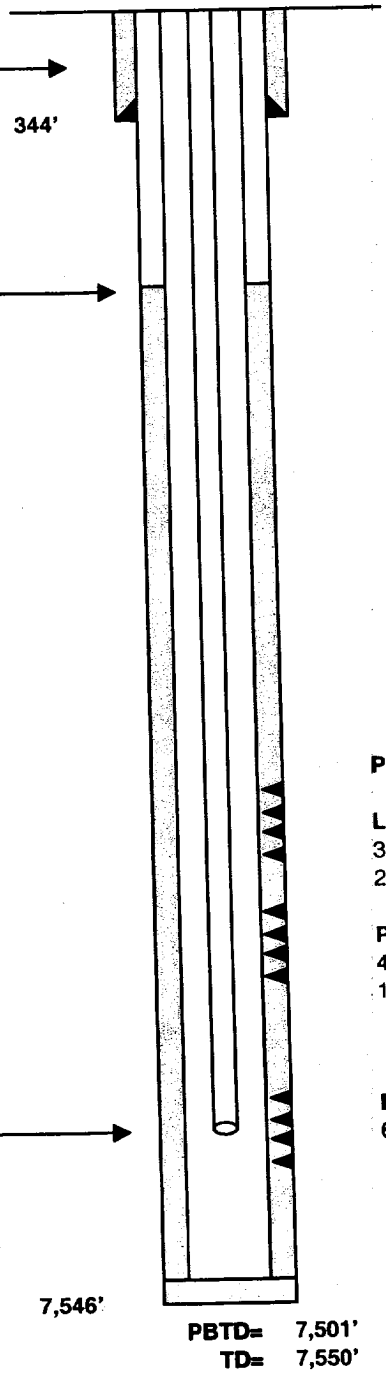
East 7F

1510 FNL , 2100 FWL
Unit , Section 14, T31N, R12W
San Juan County, NM

LAT: 36 Deg. 54.1 Min. LONG: 108 Deg. 4 Min.

GL = 6,276' KB= 6,290'

Proposed Wellbore



Surface Casing:
8-5/8" 32# J-55
Set @ 344'
TOC @ Circ 18 bbls

344'

TOC @ 2910'

Ojo Alamo	0,000'
Kirtland	0,000'
Fruitland	0,000'
Pictured Cliffs	0,000'
Lewis	0,000'
Huer. Bent. *	3,498'
Chacra	3,884'
Upper Cliff House	4,307'
Mass. Cliff House	4,380'
Menefee	4,567'
Point Lookout	5,102'
Mancos	5,534'
Upper Gallup	N/A
Greenhorn	N/A
Graneros	N/A
Dakota	N/A

Tubing:
2-3/8" 4.7#, J-55
Set @ 7,420'

Production Casing
4-1/2" 10.5# J-55
Set @ 7,546'
TOC @ 2910'

7,546'

PBTD= 7,501'
TD= 7,550'

PROPOSED STIMULATIONS:

Lewis:
3885' - 4088'
200000# 20/40 Arizona, 75Q foam

Point Lookout/Lower Menefee:
4764' - 5339'
100000# 20/40 Arizona, 2537 bbls 2% KCl

Dakota (existing):
6,997' - 7,232'
40,000# 20/40 Brady, 2516 bbls SW

PROPOSED WELLBORE

LLN 07/30/01