

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

RECEIVED
BLM

98 SEP -1 PM 3:11

070 FARMINGTON, NM

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

990' FSL, 990' FEL, Sec.10, T-32-N, R-7-W, NMPM

5. Lease Number
SF-078459B

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

Allison Unit

8. Well Name & Number
Allison Unit #7

9. API Well No.
30-045-11474

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

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☒ Recompletion

☐ New Construction

☐ Final Abandonment

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☒ Other - Commingle

13. Describe Proposed or Completed Operations

It is intended to recompleate the subject well in the Mesaverde formation according to the attached procedure and wellbore diagram. After recompletion, the well will be down-hole commingled. A down-hole commingle application will be submitted.

RECEIVED
SEP 17 1998
OIL CON. DIV.
DIST. 3

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

Signed Nancy Altman Title Regulatory Administrator Date 8/28/98
no

(This space for Federal or State Office use)

APPROVED BY /s/ Duane W. Spencer Title _____ Date SEP 15 1998
CONDITION OF APPROVAL, if any:

③

NMCCD

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer 00, 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 C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

93 SEP -1 PM 3:11

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-11474		2 Pool Code 72319/71599		3 Pool Name Blanco Mesaverde/Basin Dakota			
4 Property Code 6784		5 Property Name ALLISON UNIT				6 Well Number 7	
7 OGRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY				9 Elevation 6732'	

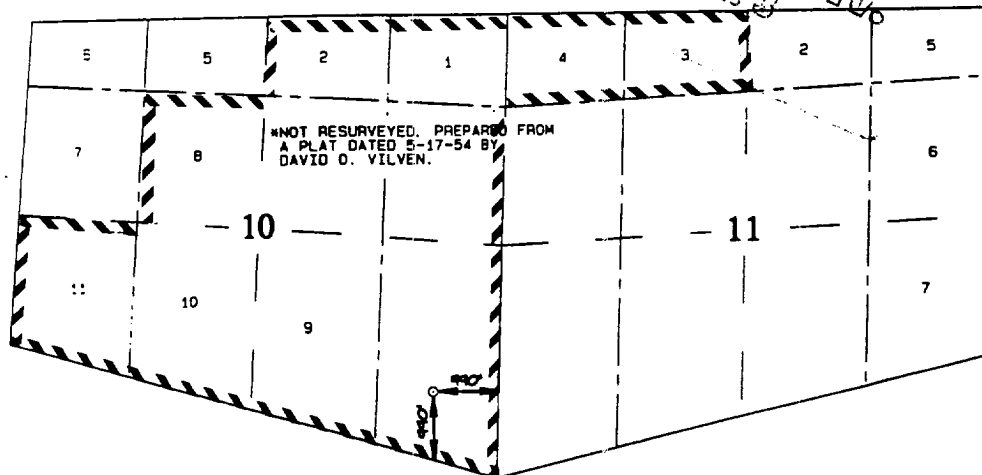
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	10	32N	7W		990	SOUTH	990	EAST	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 Dedicate Acres MV-357.84 DK - 357.84		13 Joint or Infill		14 Consolidation Code		15 Order No. R-2046			

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 Bradfield

Printed Name
Regulatory Administrator

Title
8-28-98

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.

AUGUST 26, 1998

Date of Survey

Signature and Seal of Professional Surveyor

NEALE C. EDWARDS
NEW MEXICO
6857
Certificated Professional Surveyor

BURLINGTON RESOURCES

Allison Unit # 7

990' FSL, 990' FEL
Unit P, Section 10, T32N, R7W
San Juan County, New Mexico
LAT: 36° 59.40' LONG: 108° 32.90'

Project Objective:

Well is currently producing +/- 80 mcf/d. Set plug over Dakota to remediate and recomplete in the Mesaverde and Lewis zones. Mesaverde will be completed with a two stage crosslinked frac. The Lewis will be stimulated with a single stage 70 quality foam frac. After the zones are cleaned up, tubing will be landed in the Dakota and zones commingled.

Equipment and Material Requirements:

Deliver the following equipment to location:

1. 2-3/8" 4.7# J-55 tubing as needed for replacement.
2. Eight (8) - 400 bbls frac tanks to be spotted and filled w/ 2% KCL
3. 7000' of 4-1/2" 10.5# J-55 tubing for frac string
4. 7" annular packer for 4-1/2" tubing
5. 6-1/8" bit/mill, Six 3-1/8" drill collars
6. Four (4) CIBP
7. **Extra Air Compressor** needed to lift sand in 7" casing.

Below are materials required for fracture stimulations:

	<u>Mesaverde</u>	<u>Lewis</u>	
Fluid Type	20# X-link	20# Linear 70Q Foam	
Stages	Two	One	
Water Volume	2786	718	Bbls
Acid Volume	60	30	Bbls
Sand Type	Arizona	Arizona	
Sand Size	20/40	20/40	
Sand Volume	200,000	200,000	#'s

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. Contact Production Engineering and discuss stimulation water source and quality. Run fluid tests on water. Filter water based on Stimulation company solids water analysis.

Procedure:

1. Hold safety meeting. MIRU completion rig. Place fire and safety equipment in strategic locations. Comply with all BR, BLM, and NMOCD rules and regulations. Record tubing, casing, pressures. RU flowlines. Blowdown tbg and casing.
2. Kill well w 2% KCL down tubing, if necessary. ND wellhead. Replace any failed valves or seals on wellhead. NU BOP's w/ 2-3/8" pipe rams and stripping head.

3. TOOH with 8170' of 2-3/8", 4.6#, 8rd tubing. Rabbit and strap tubing. Inspect and replace any bad joints. Call for test unit/separator and pit to be delivered to location to test Dakota Gas/Oil/Water rates. (Lary Byars @ 326-9865 or Ken Collins @ 326-9718)
4. PU 6-1/8" bit/mill, (drill collars, if necessary) and 2-3/8" tubing. Strap and rabbit tubing. TIH to open hole at 8165'. Cleanout/drillout to original TD at 8443' with foam mist. Clean up to less than 5 BPH with no solids. Obtain stabilized pitot gauges at 15, 30, 45, and 60 min to test Dakota zone. Test Dakota through production test unit for 3 hours minimum. TOOH with 2-3/8" tubing. Lay down drill collars and bit.
5. PU 7" CIBP and 7" packer on 2-3/8" tubing. TIH and set CIBP at 7500'. Circulate 2% KCL to fill hole. PUH 10' and set packer. Pressure test CIBP to 1000 psi. Bleed off pressure. Unseat packer. TOOH and lay down packer.
6. MIRU wireline company. RIH with CBL/GR/CCL tool. Log from CIBP at 7500' to 500' above TOC. POOH. Call engineer with results to design squeeze job needed to isolate frac treatments.
7. MIRU cementers. NU to wellhead. Pressure test surface lines to 4000 psi. Bleed off pressure. Fill casing and stage pressure up to 3000 psi. If casing holds pressure, go to step 8. Otherwise, PU 7" packer on 2-3/8" tubing. TIH to CIBP. Set packer about 10' above CIBP and test tubing and CIBP to 3200 psi. PU 10 stands and hunt hole. Report finding to production engineer to design squeeze to cover hole and Mesaverde interval for fracturing. POOH with 2-3/8" tubing and packer.
8. If CBL in step 6 indicates no squeeze needed, go to step 14. Otherwise, RU wireline company. PU 3-1/8" perf gun with 0.5" squeeze holes. RIH and perforate squeeze holes based on CBL for zone isolation and coverage of any holes found. POOH with perforating gun.
9. RU cementers. Pressure test surface lines to 4000 psi. Bleed off pressure. Pump to establish rate and pressure into perforations before running retainer. Max pressure for injection 3000 psi. RD cementers.
10. PU 7" cement retainer and 2-3/8" tubing. TIH to 150' above squeeze holes and set retainer. RU cementers. Sting out of retainer. With 2-3/8" by 7" annulus open, pump tubing volume of 2% KCL to clear stinger. Sting into retainer and pump to establish rate and pressure into squeeze holes. Pump cement system calculated from step 6. Hesitate squeeze after tubing has been displaced.
11. Sting out of retainer and TUH 300'. Reverse circulate two (2) tubing volumes to clear tubing and annulus. TOOH with tubing and stinger. Lay down stinger. PU 6-1/8" bit/mill. WOC 12 hr. before going in to drill out.
12. TIH with 6-1/8" bit/mill and 2 3/8" tubing. Drill out retainer and cement to 20' below squeeze holes. Shut in pipe rams and pressure test casing to 1000 psi with rig pump. Call engineer with results of test. Decision will be made whether to repeat steps 9 – 12 based on results of test and CBL. Once test is successful. RD and release cement crew. Continue to drill out and clean out to CIBP @ 7500'.
13. Wait 18 hrs. from end of squeeze for cement to cure. RIH with CBL/CCL to 7500'. Log from 7500' to 100' above top of cement. If zone is not adequately isolated for fracture stimulating, select new holes for step 8 and repeat steps 8-13. When isolation looks good, prepare to perforate for frac.

NOTE: If casing tests to this point are adequate, use 7" full bore isolation tool instead of tubing/packer for stimulations.

POINT LOOKOUT AND MENEFFEE PERFORATING AND FRACTURE STIMULATION (1st STAGE):

14. MIRU wireline company. Under a lubricator, RIH with 3-1/8" HSC casing gun. Select fire perforate Massive Point Lookout with 1 SPF, 0.32" diameter, (Owen, 302) charges at the following depths:

Note: Perforate Lower Point Lookout w/ 2 spf at 120° phasing at the following depths:

Following Lower Point Lookout perforations at 2 spf:

6074. 6082. 6100. 6129. 6143. 6152. 6175. 6186. 6200. 6215

Following Massive Point Lookout at 1 spf:

5790. 5795. 5800. 5840. 5845. 5850. 5899. 5902. 5920. 5950.
5967. 5980. 6000. 6024. 6054

(35 total holes, 25 effective holes, 425' of gross interval)

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

15. XO to 4-1/2" pipe rams and slips. PU 7" packer on 4-1/2" 10.5# tubing, and TIH to set packer +/- 5570'. RU stimulation company.
16. Fill annulus behind and apply 500 psi, if casing permits, and hold during frac job.
17. NU stimulation company. Pressure test surface lines to 4200 psi. Prepare to breakdown perforations. Pump into perforations to establish injection rate at maximum pressure of 3200 psi. Record breakdown pressure and rate and ISIP. **Note: Calculate the number of perforations open at beginning of the job. Note number of perfs open in frac report. Prepare to ballout to ensure effective stimulation.** If an injection rate cannot be established, unseat packer and TIH with 4-1/2" tubing and spot 5 bbls 15% HCL across perforations. TUH and reseat packer at +/- 5570'.
18. Begin balloff. Pump 30 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 70, 7/8" 1.3 SG RCN ball sealers spaced evenly throughout job. Maximum pressure at balloff is 3200 psi. ND stimulation company.
19. Unseat packer. PU 4-1/2" tubing and TIH to 6220' to knock balls off. TUH and reseat packer at +/- 5570'.
20. NU stimulation company. Hold safety meeting. Pressure test surface lines to 4200 psi. Maximum surface treating pressure during frac is 3200 psi. Fracture stimulate Point Lookout / Lower Menefee interval per attached schedule at 40 BPM, with 100,000 #'s of 20/40 Arizona sand. Quick flush at 4 ppg with 2% KCL. Flush with 93 bbls of 2% KCL to 100' of top perforation. Cut rate throughout flush as pressure allows. Shut down and record ISIP, 5, 10, 15 min shut-in pressures. ND stimulation company.
21. NU wireline company. Under a lubricator, RIH with 7", 26# CIBP and set at 5740' (Note: lowest next stage perforation @ 5715'). POOH and ND wireline.
22. If previous pressure test (step 7) was not successful, go to step 23 and test CIBP under packer in step 24. Otherwise, NU stimulation company. Pressure test surface lines to 4200 psi. Pressure test CIBP to 3200 psi for 15 minutes. Bleed off pressure. ND stimulation company.

MENEFEE AND CLIFF HOUSE PERFORATING AND FRACTURE STIMULATION (2nd STAGE):

23. NU wireline company. Under packoff, RIH with 3-1/8 HSC casing gun. Select fire perforate Menefee and Cliffhouse with 1 SPF, 0.32" diameter, (Owen, 302) charges at the following depths:

5308. 5323. 5342. 5362. 5383. 5400. 5419. 5433. 5451. 5470,

5482. 5504. 5529. 5544. 5560. 5582. 5603. 5627. 5643. 5663,
5680. 5688. 5713. 5715

(24 total holes, 407' of total gross interval)

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

24. PU 7" packer on 4-1/2" 10.5# tubing, and TIH to set packer +/- 5100'. RU stimulation company. Fill annulus behind 4-1/2" tubing and apply 500 psi and hold during frac job.
25. NU stimulation company. Pressure test lines to 4200 psi. Prepare to breakdown perforations. Pump into perforations to establish injection rate at maximum pressure of 3200 psi. Record breakdown pressure, rate and ISIP. If an injection rate of > 5 BPM can be established, prepare to balloff. If an injection rate cannot be established, RIH w/ 50' of acid dump bailer filled with 28% HCL and spot acid across from 5650'-5690'.
26. Begin balloff. Pump 20 bbls of 15% HCL (Add 2/1000 gallons corrosion inhibitor) and flush with 2% KCL at maximum rate pressure will allow. **Note: Calculate the number of perforations open once a stabilized rate is achieved during breakdown. If 90% of the perforations calculate to open, pump acid but do not drop balls.** If no ball sealers are going to be dropped skip to step 29.
27. If less than 90% of the holes calculate to be open, drop a total of 48, 7/8" 1.3 SG RCN ball sealers spaced evenly throughout job. Maximum pressure at balloff is 3200 psi. ND stimulation company.
28. Unseat packer. PU 4-1/2" tubing and TIH to 5715' to knock balls off. TUH and reseat packer at +/- 5100'.
29. NU stimulation company. Hold safety meeting. Pressure test surface lines to 4200 psi. Maximum surface treating pressure during frac is 3200 psi. Fracture stimulate Cliff House and Menefee interval per attached schedule at 40 BPM, with an estimated 100,000 #'s of 20/40 Arizona sand. Quick flush at 4 ppg with 2% KCL with 85 bbls to 100' of top perforation. Shut down and record ISIP, 5, 10, 15 min shut-in pressures. ND stimulation company.
30. Bleed pressure off tubing and casing. ND stimulation company. Unseat packer and TOOH.
31. NU wireline company. Under a lubricator, RIH with 7", 26# CIBP and set at 5220' (Note: lowest next stage perforation @ 5190'). POOH and ND wireline.
32. If previous pressure test (step 7) was not successful, go to step 33 and test CIBP under packer in step 34. Otherwise, NU stimulation company. Pressure test surface lines to 4200 psi. Pressure test CIBP to 3200 psi for 15 minutes. Bleed off pressure. ND stimulation company.

LEWIS PERFORATING AND FRACTURE STIMULATION (3rd STAGE):

33. NU wireline company. Under packoff, RIH with 3-1/8" HSC casing gun. Select fire perforate Menefee and Cliffhouse with 1 SPF, 0.32" diameter, (Owen, 302) charges at the following depths:

4583. 4594. 4634. 4645. 4680. 4699. 4723. 4731. 4762. 4780,
4886. 4920. 4940. 4980. 5015. 5028. 5062. 5096. 5114. 5170,
5178. 5190

(22 total holes, 607' of total gross interval)

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

34. PU 7" packer on 4-1/2" 10.5# tubing, and TIH to set packer +/- 4450'. RU stimulation company. Fill annulus behind 4-1/2" tubing and apply 500 psi and hold during frac job.
35. NU stimulation company. Pressure test lines to 4200 psi. Prepare to breakdown perforations. Pump into perforations to establish injection rate at maximum pressure of 3200 psi. Record breakdown pressure, rate and ISIP. If an injection rate of > 5 BPM can be established, prepare to balloff. If an injection rate cannot

be established, RIH w/ 50' of acid dump bailer filled with 28% HCL and spot acid across from 5150'-5190'.

36. Begin balloff. Pump 20 bbls of 15% HCL (Add 2/1000 gallons corrosion inhibitor) and flush with 2% KCL at maximum rate pressure will allow. **Note: Calculate the number of perforations open once a stabilized rate is achieved during breakdown. If 90% of the perforations calculate to open, pump acid but do not drop balls.** If no ball sealers are going to be dropped skip to step 39.
37. If less than 90% of the holes calculate to be open, drop a total of 44, 7/8" 1.3 SG RCN ball sealers spaced evenly throughout job. Maximum pressure at balloff is 3200 psi. ND stimulation company.
38. Unseat packer. PU 4-1/2" tubing and TIH to 5200' to knock balls off. TUH and reseat packer at +/- 4450'.
39. NU stimulation company. Hold safety meeting. Pressure test surface lines to 4200 psi. Maximum surface treating pressure during frac is 3200 psi. Fracture stimulate Lewis interval, with 70Q foam system of N2 and 25# linear gel, per attached schedule at 45 BPM, with an estimated 200,000 #'s of 20/40 Arizona sand. Quick flush at 4 ppg with 72 bbls of 2% KCL to 100' of top perforation. Shut down and record ISIP, 5, 10, 15 min shut-in pressures.
40. Bleed pressure off tubing and casing. ND stimulation company. Unseat packer and TOOH.

CLEANOUT PROCEDURE:

41. XO to 2-3/8" pipe rams and slips. PU 6-1/8" bit (drill collars as needed) on 2-3/8" tubing. Clean out to CIBP set and 5220'. Clean up to less than 2 BPH water and trace of sand. Obtain stabilized pitot gauges at 15, 30, 45, and 60 min for the Lewis interval. Record on WIMS report.
42. RU adjustable choke and flow line to pit. Flow test Lewis up annulus with back pressure (+/- 200 psi, if possible). Pitot gauge results every 15 minutes for 3 hour test. Record results on WIMS report. (Testers and separators not needed for Lewis.)
43. Call for test unit/separator and pit to be delivered to location to test Mesaverde Gas/Oil/Water rates. (Lary Byars @ 326-9865 or Ken Collins @ 326-9718)
44. Check for fill on CIBP at 5220' (covering CH/MN). TIH. Drill out CIBP at 5220'. Use foam/mist rate of 10 to 12 BPH.
45. Continue to TIH and clean out to CIBP at 5740'. Obtain 15 minute pitot on LW/CH/MN zones. Zones need not be totally cleaned up. Record results on WIMS report.
46. Check for fill on CIBP at 5740' (covering MN/PL). Drill out CIBP at 5740'. Use foam/mist rate of 10 to 12 BPH.
47. Clean out to CIBP set and 7500'. Obtain stabilized pitot gauge and record in WIMS report. When rates are less than 1 BPH water and no sand, space out tubing to within +/- 20' of bottom perforation at 6,215'.
48. RU test unit and pit. Flow test LW/MV up annulus with 200 psi backpressure on unit. Run a minimum 3 hour test and record results on WIMS report. RD test unit and release.
49. Check for fill on CIBP at 7500'. TIH. Drill out CIBP at 7500'. Use foam/mist rate of 10 to 12 BPH.
50. Clean out to PBTD at 8443'. Clean up to less than 5 BPH and trace of sand. Obtain stabilized pitot gauges at 15, 30, 45, and 60 min for the commingled zones. TOOH laying down 2-3/8" tubing, drill collars, and bit.
51. 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 +/- 8165'. Broach tubing while running in hole to seat-nipple with sandline. POOH.

51. 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: Kenneth M. Collins 7/15/98
Kenneth M. Collins
Production Engineer

Approval: _____
Regional Engineer PWB 7/20/98
Drilling Superintendent

VENDORS:

	<u>SERVICE COMPANY</u>	<u>PHONE NUMBER</u>
CASED HOLE:	TBA	
STIMULATION:	TBA	
FRAC VALVE:	District Tools	

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PERTINENT DATA SHEET
Allison Unit #7

<u>LOCATION:</u> 990' FSL, 990' FEL Unit P, Section 10, T32N, R7W San Juan County, New Mexico <u>FIELD:</u> Basin Dakota <u>TD:</u> 8443' <u>LAT:</u> 36° 59.4 ' <u>PBTD:</u> <u>LONG:</u> 107° 32.9 ' <u>SPUD DATE:</u> 8/20/54 <u>COMPLETION DATE:</u> 10/21/54	<u>ELEVATION:</u> 6741' DF <u>DP#:</u> 49037A - DK <u>GWI:</u> 98.69% - DK 98.69% - MV <u>NRI:</u> 83.81% - DK 83.58% - MV
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CASING RECORD:

<u>HOLE SIZE</u>	<u>CSG SIZE</u>	<u>WGHT & GRD</u>	<u>DEPTH SET</u>	<u>SXS CMT</u>	<u>CMT TOP</u>
13-3/8"	48#, J-55		162'	150	surface
9-5/8"	36#, J-55		3772'	300	2460' (TS)
7"	23#, N-80		468'		
7"	23#, J-55		468' -5162'		
7"	23#, N-80		5162'-7361'		
7"	26#, N-80		7361'-8165'	150	6640' (TS)
6-1/4"	Open hole		8165'-8443'	N/A	N/A

Cored well 8165-8185', recovered 12' 8" sdy, carb. sh. Open hole frac'd and completed across Dakota.

TUBING RECORD:

<u>TBG SIZE (In.)</u>	<u>WGHT (#'s) & GRD</u>	<u>DEPTH SET</u>	<u>BHA</u>
2-3/8"		8169.54'	

FORMATION TOPS:

Fruitland	3154'	Menefee	5690'	Graneros	8056'
Pictured Cliffs	3412'	Pt. Lookout	5915'	Dakota	8179'
Huerf. Bent.	4426'	Mancos	6064'		
Cliff House	5604'	Greenhorn	7997'		

LOGGING RECORD: ES, GN, Temp Survey

STIMULATION: DAKOTA: Acidized DK from 8165-8185', w/2500 gals HCL mud acid. Breakdown pressure @ 1700#, max pressure @ 1900#. Frac 8165' - 8185' w/ 6650 gal. Oil, 3100# sd.

WORKOVER HISTORY: 11/65: MIRU. Killed well w/320 bbl water. Tb head all cut out & donut dropped down ~2". Tbg head needs to be replaced. RD.

PRODUCTION HISTORY: natural gauge = 917 mcf/d
 tested well @ 4,385 mcf/d 10/54 (open flow), 2870 psi SICP
 current production = 80 mcf/d

TRANSPORTER: Williams Field Services

Allison Unit #7

Basin Dakota

Unit P, Section 10, T32N, R7W

San Juan County, NM

Elevation: 6741' DF

LAT: 36° 59.4' / LONG: 107° 32.9'

date spud: 8/20/54

Current

13-3/8", 48#, J-55,
csg set @ 162'
w/150 sx
circ to surface

9-5/8", 36#, J-55, csg
set @ 3772'
w/300 sx
TOC @ 2460' (TS)

7", 23# & 26#,
J-55 & N-80 csg
set @ 8165'
w/150 sx
TOC @ 6640' (TS)

Formation Tops:

Fruitland	3154'
Pictured Cliffs	3412'
Huerf. Bent.*	4426'
Mass Cliff House	5604'
Menefee	5690'
Point Lookout	5915'
Mancos	6064'
Greenhorn	7997'
Graneros	8056'
Dakota	8179'

2-3/8" tbg set
@ 8170'

TD: 8443'

Open hole 8165'-8443'

Dakota: Acidized 8165'-8185'

w/2500 gals HCL mud acid

Brkdn press. 1700# Max 1900#

Frac 8165'-8185' w/ 6650 gal oil, 3100# sd.

Proposed

Recomplete to add
the Lewis and
Mesaverde zones

Open hole 8165'-8443'