

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
MERIDIAN OIL

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

4. Location of Well, Footage, Sec., T, R, M
1090' FSL, 1800' FEL, Sec. 23, T-30-N, R-10-W, NMPM

5. Lease Number
SF-078200B

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Riddle B #5

9. API Well No.
30-045-20353

10. Field and Pool
(WC; 30N10W230) Gallup/
Basin Dakota

11. County and State
San Juan Co, NM

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

Type of Submission

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☒ Recompletion

☐ Plugging Back

☒ Casing Repair

☐ Altering Casing

☒ Other - Acidize Dakota

☒ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to recompleate the subject well in the Gallup formation according to the attached procedure and wellbore diagram. The Dakota formation will be acidized also.

RECEIVED
JAN 16 1996

OIL CON. DIV.
DIST. 3

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

Signed [Signature] (MEL5) Title Regulatory Administrator Date 12/15/95

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

Date _____

CONDITION OF APPROVAL, if any:

APPROVED

JAN 09 1996

DISTRICT MANAGER

NMOCD

<p>16</p>	<p>Not resurveyed, prepared from a plat by David O. Wilven dated 9-11-68.</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Peggy Bradford</i></p> <p>Signature</p> <p>Peggy Bradford</p> <p>Printed Name</p> <p>Regulatory Administrator</p> <p>Title</p> <p>12-15-95</p> <p>Date</p>
<p>17</p>	<p>23</p>	<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>12-14-95</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p><i>HERBERT C. EDWARDS</i></p> <p>HERBERT C. EDWARDS</p> <p>6857</p> <p>6857</p> <p>Certificate Number</p>
<p>18</p>	<p>19</p> <p>1800'</p> <p>1090'</p>	<p>20</p>

Riddle B #5 - Dakota/Gallup
Acidize Dakota / Payadd Gallup / Casing Failure Repair
Lat-Long by TDG: 36.793289 - 107.850525
SE/4 Section 23, T30N-R10W
August 11, 1995

1. Hold safety meeting. MIRU. Install safety equipment and fire extinguishers in strategic locations. Install frac tanks and 1x400 bbl rig tank. Fill each frac tank with 5#s of biocide and filtered (25 micron) 1% KCl water.
2. Obtain and record all wellhead pressures. ND WH, NU BOP. TOOH with 2-3/8" tubing set at 7110' (tubing is landed in a Baker Model "K" cement retainer @7107'). Inspect and replace bad tubing as necessary.
3. Pick up 2-3/8" tubing and 3-7/8" bit and TIH. CO to cement retainer @ 7107'. Drill out cement retainer and CO to PBTD of 7389'. TOOH and PU 4-1/2", 11.6# casing scraper. TIH and make scraper run to 7160'. TOOH. Lay down casing scraper and bit.
4. RU wireline and set a CIBP @ 7100'. TIH and load hole with water. Pressure test the casing to 1500 psi for 15 minutes. If pressure test fails, locate failure with packer and tubing. TOOH. Run CBL-CCL-GR from 7100' to surface. Send copy of CBL to office and a squeeze procedure will be provided if necessary.
5. If squeeze work was necessary, TIH w/ 3-7/8" bit and tubing and drill out cement. Obtain 1500 psi test and re-squeeze if necessary. Drill up CIBP set at 7100'. TOOH w/ tubing and bit.
6. TIH w/ 4-1/2" fullbore packer and 2-7/8" N-80 frac string w/ 300' of 2-3/8" crossover. Set packer @ 7000'.
7. Acidize the Dakota perforations with 2000 gallons of HF acid and 24000 scf of Nitrogen. Maximum allowable treating pressure is 3800 psi. Release packer and TOOH.
8. RU wireline and set a 4-1/2" RBP @ 6700'. TIH w/ 4-1/2" fullbore packer and 2-7/8". Load the hole with 1% KCL water. Set packer 100' below the squeeze holes or 50' below the TOC for the Gallup - which ever is the deepest. Pressure test to 3800 psi. TOH and dump sand on RBP with dump bailer.
9. Perforate the following Gallup interval using 12 gram charges, 0.31" diameter holes and 3-1/8" HSC guns: (18 holes total)

6327	6478
6331	6488
6337	6503
6372	6523
6382	6532
6396	6547
6410	6554
6434	6563
6455	6582

Inspect guns to ensure all perforations fired.

10. TIH w/ 2-7/8" N-80 frac string w/ 300' cross over of 2-3/8" tubing and 4-1/2" fullbore packer. Set packer \pm 100' above top perforation.

Riddle B #5
Gallup Payadd / Bradenhead Flow Repair
August 11, 1995

11. Balloff Gallup perforations with 1500 gallons of 15% Acedic acid w/ 10% methonol and 36 RCN ball sealers. Maximum allowable treating pressure is 3800 psi. TIH w/ packer and knock balls off perforations.
12. TIH w/ 4-1/2" fullbore packer and 2-7/8" N-80 frac string (with 300' crossover of 2-3/8"). Set packer \pm 50' below TOC or the squeeze holes (use the deepest depth) in the Gallup interval. Load backside w/ water. Hold and monitor backside w/ 500 psi during frac job.
13. RU frac company. Hold safety meeting. Test surface lines to 6000 psi. (**Maximum allowable treating pressure is 5000 psi.**) Fracture Gallup according to attached procedure. Shut in well immediately after completion of the stimulation until pressure falls to zero. Release packer and TOOH w/ frac string.
14. TIH w/ retrieving head and CO to RBP set @ 6700' until sand production is minimal. Obtain pitot gauge for Gallup interval. Release RBP @ 6700' and TOOH.
15. TIH with 2-3/8" tubing with notched collar and CO to PBTD of 7389'. PU above the Dakota perforations and flow the well naturally, making short trips for clean up when necessary. Obtain pitot gauge for Gallup/Dakota intervals after clean up.
16. When returns have diminished (both sand and water), TOOH.
17. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, an F-nipple, then the remaining 2-3/8" tubing. CO to PBTD of 7389'. Land tubing near bottom perforation (7368').
18. ND BOP's, NU WH. Pump off expendable check. Obtain final pitot. RDMO. Return well to production.

Approval:

Drilling Superintendent

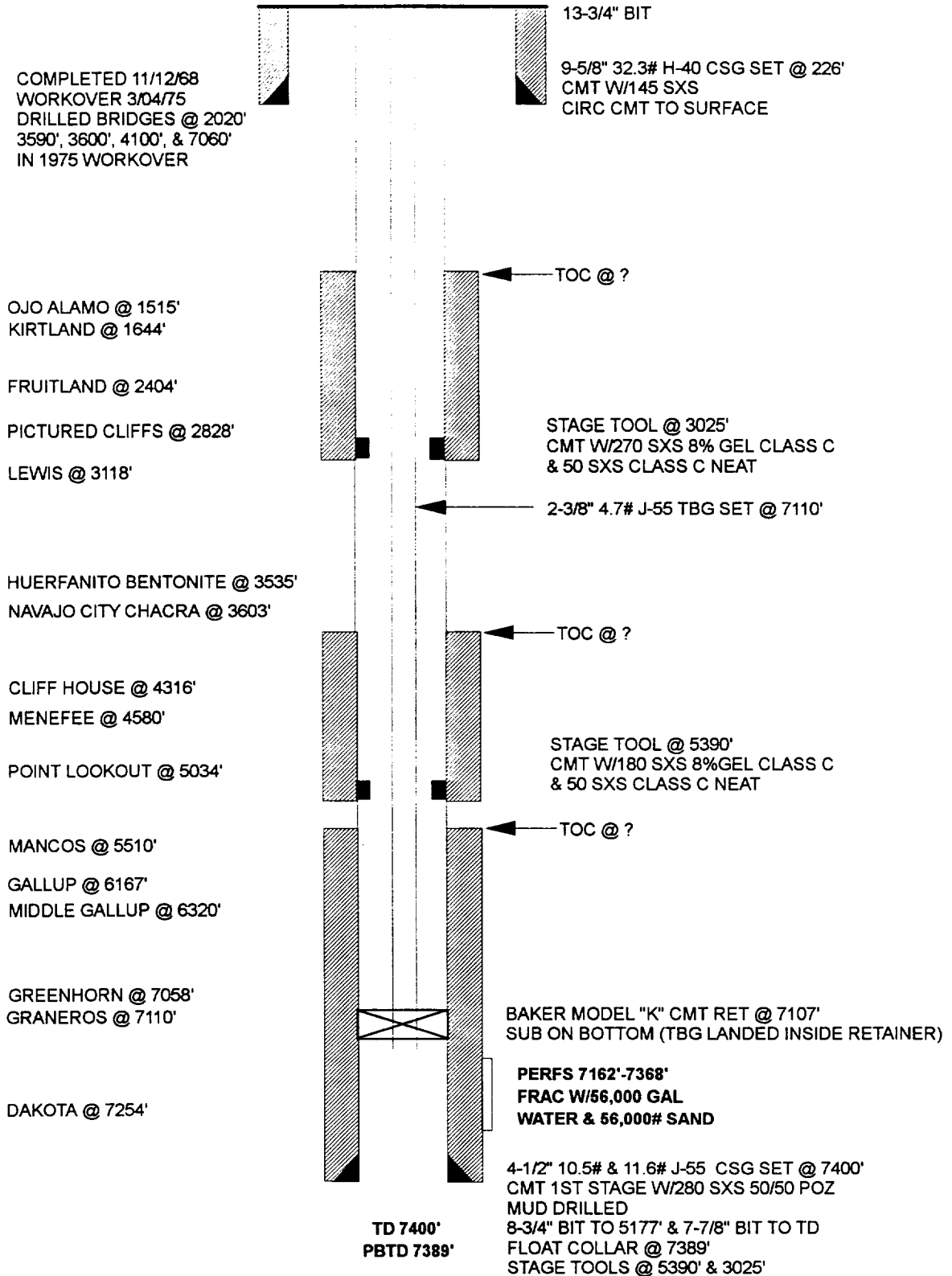
Approval:

Northwest Basin Team Leader

RIDDLE B #5

CURRENT
BASIN DAKOTA

UNIT O, SEC 23, T30N, R10W, SAN JUAN COUNTY, NM



Pertinent Data Sheet - Riddle B #5

Location: 1090' FSL, 1800' FEL, Unit O, Section 23, T30N, R10W, San Juan County, New Mexico

Field: Basin Dakota

Elevation: 6207' GL

TD: 7400'

PBTD: 7379'

Spud Date: 10-11-68

Completed: 11-12-68

Workover: 03-04-75

Initial Potential:

AOF: 4841 MCFD

SICP: 2132

DP No: 51767A

Prop. No: 012567900

Fed. No: SF-078200-B

Casing/Liner Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
13 3/4"	9 5/8"	32.3#	226'	145 sxs	Circ/Surface
7 7/8"	4 1/2"	11.6/10.5# K55	7400'	280 sxs Mud	Unknown
8 3/4" Bit to 5177', 7 7/8" Bit to TD			2nd Stage	230 sxs	Unknown
			3rd Stage	320 sxs	Unknown
		Stage Tool @	3025'		
		Stage Tool @	5390'		
		Float Collar @	7389'		

Tubing Record:

<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
2 3/8"	4.7# J-55	7110'
Baker Model 'K' Cmt Retainer @		7107'

Formation Tops:

Ojo Alamo:	1515'	Menefee:	4580'
Kirtland:	1644'	Point Lookout:	5034'
Fruitland:	2404'	Mancos:	5510'
Pictured Cliffs:	2828'	Gallup:	6167'
Lewis:	3118'	Middle Gallup:	6320'
Huer Bentonite:	3535'	Greenhorn:	7058'
NC Chacra:	3603'	Graneros:	7110'
Cliff House:	4316'	Dakota:	7254'

Logging Record: I-ES, FDC-GR, TS

Stimulation:

Perf: 7162' - 7177', 7254' - 7274', 7330' - 7340', 7358' - 7368' w/25 SPZ

Frac: 56,000# sand, 56,000 gal water & 300 gal acid. Dropped 3 sets of 25 balls.
Flush w/5,712 gal water.

Workover History:

01/75: Pull tbg, tried to circ mud out w/triplex pump. Tried to jet hole clean w/booster.
Hole bridged off @ 2020'. Drl bridges @ 3590', 3600', 4100' & 7060'.
Ran 2 3/8" tbg. Set @ 1934'. Pull bad tbg. CO to 7357'. Ran Baker Model 'K' cmt retainer.
Set @ 7107'. Ran 2 3/8" tbg in retainer @ 7110'.

Transporter: Sunterra Gas Gathering