

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
PLM

Sundry Notices and Reports on Wells

95 APR 13 PM 2:44

1. Type of Well
GAS

070 FARMINGTON, NM

5. Lease Number
SF-078716A 078266
6. If Indian, All. or
Tribe Name

2. Name of Operator
MERIDIAN OIL

7. Unit Agreement Name

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

8. Well Name & Number
Hubbell #5E

9. API Well No.
30-045-24056

4. Location of Well, Footage, Sec., T, R, M
1630'FNL, 1760'FWL, Sec.17, T-29-N, R-10-W, NMPM

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

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input checked="" type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

It is intended to plug and abandon the Dakota formation of the subject well and recomplete in the Mesaverde formation according to the attached procedure and wellbore diagram.

RECEIVED
APR 24 1995
OIL CON. DIV.
1411.3

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

Signed [Signature] (KJ2) Title Regulatory Affairs Date 4/12/95

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

Date **APPROVED**

CONDITION OF APPROVAL, if any:

APR 19 1995

DISTRICT MANAGER

NMOCD

District I
PO Box 1988, Hobbs, NM 88241-1988
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Bravo 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

95 APR 13 PM 2:44

Form C-10
Revised February 21, 199

Instructions on back:
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-24056	Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7133	Property Name Hubbell	Well Number 5-F
OGRID No. 14538	Operator Name Meridian Oil Inc.	Elevation 5698'

10 Surface Location

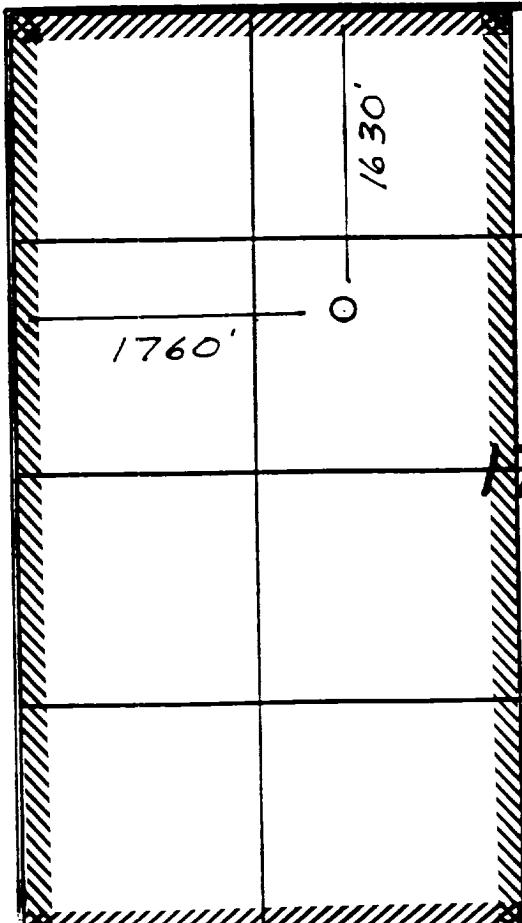

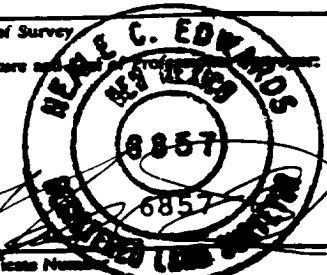
UL or lot no. F	Section 17	Township 29 N	Range 10 W	Lot Idn	Feet from the 1630	North/South line North	Feet from the 1760	East/West line west	County SJ
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres w/316.19	Joint or Infill	Consolidation Code	Order No.
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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

	<p>*Not re-surveyed Prepared from plat: Dated: 9-12-79 By: Fred B. Kerr Jr</p> <p>RECEIVED APR 24 1995 OIL CON. DIV. DIST. 3</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> Signature Peggy Bradfield Printed Name Regulatory Affairs Title 4-12-95 Date</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>11-27-79 Date of Survey Signature  Certificate Number</p>

Pertinent Data Sheet - Hubbell 5E

Location: 1630' FSL & 1760' FEL, Unit F, Section 17, T29N, R10W, San Juan County, New Mexico

Field: Basin Dakota

Elevation: 5698' GL
5712' KB

TD: 6756'
PBTD: 6742'

Completed: 4/20/81

Spud Date: 12/28/80

DP #: 50402A

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement (Top)</u>
12-1/4"	8-5/8"	24.0# K-55	211'	140 sx. (Cir Surface)
7-7/8"	4-1/2"	10.5# K-55	6756'	965 sx. *(Cal. 700')

DV Tool @ 2220'

DV Tool @ 4956'

Marker Joint @ 6278'

Surface: 140 sx. Class "B" W/1/4 lb. Gel-flake/sx., & 3% CaCl₂.

***Production:** 3 stage 65/35 Class "B" Pozmix W/6% Gel, 2% CaCl₂, 1/4 lb. Fine tuf-plug per sx.

1st stage:

Lead: 150 sx. 65/35 Class "B" Pozmix, W/6% Gel, 2% CaCl₂

Tail: 100 sx. 50/50 Class "B" Pozmix W/2% Gel, 2% CaCl₂, and 1/4 lb. fine tuf-plug/sx.

2nd Stage:

Lead: 325 sx. 65/35 Class "B" Pozmix, W/6% Gel, 2% CaCl₂.

3rd stage:

Lead: 390 sx. 65/35 Class "B" Pozmix, W/6% Gel and 2% CaCl₂.

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
2-3/8"	4.70# J-55 EUE	6619' **
** S.N. @ (6586')		

Formation Tops:

Ojo Alamo: 800'	Chacra: 3030'	Gallup 5561'
Kirtland Shale: 933'	Mesaverde: 3675'	Greenhorn 6310'
Fruitland: 1725'	Menefee: 3733'	Graneros 6367'
Pictured Cliffs: 2024'	Point Lookout: 4190'	Dakota 6487'

Logging Record: CDL, SWN-GCL, GIL, TEMP SURVEY, & CBL

Stimulation: **Dakota:** Prf'd w/S.F. 10 Holes, (6712-6723') Well came in naturally so zone was not Frac'd.

Prf'd w/S.F. 16-.34" Holes, (6448', 56', 96', 6503', 11', 19', 27', 34', 62', 68', 6577', 86', 96', 6604', 23', 6648'. Frac'd w/165,000 gals X-link gelled water, 228,000# 20/40 sd., and 68,000# 10/20 sd.

Workover History: (3/29/81-4/20/81) Found hole in casing between 4374' and 4405'. Set packer @ 4115' and squeezed 177 cu.ft. cement. Pressure tested casing and did not hold. Re-squeezed @ 4115 with 118 cu.ft. cement. Casing tested to 2500 psi.

NOTE: After lower Dakota zone was perforated (6712'-6723'), the rig started in with a casing patch. Casing Patch was left in well. There is no record in the well file of where the Casing Patch was left.

HUBBELL #5E

CURRENT

RECEIVED
BLP

UNIT F, SECTION 17, T-29-N, R-10-W

95 APR 13 PM 2:44

SAN JUAN COUNTY, NM

5698' GL
6704' KB
MININGTON, NM

COMPLETED 4/20/81

CMT W/140 SX
CEMENT CIR.
TO SURFACE

8-5/8" 24.0# K-55 CSG. SET @ 211'

OJO ALAMO @ 800'

CMT. IN 3 Stages W/965 SXS.
65/35 CLASS "B" POZMIX
TOP OF CMT @ 700' (cal.)

KIRTLAND @ 933'

DV TOOL @ 2220'

FRUITLAND @ 1725'

2-3/8" 4.7# J-55 TBG SET @ 6619'
S.N. SET @ 6586'

NOTE: Found hole in casing between 4373'-4405'
Set pkr. @ 4115', sqz. 177 cu.ft. cmt. Drilled out tstd
did not hold. Re-sqz. 118 cu.ft. cmt. Tstd to 2500#,
held.

PICTURED CLIFFS @ 2024'

DV TOOL @ 4956'

CHACRA @ 3030'

SIDETRACK STARTED @ 5490'

MESAVERDE @ 3675'

MENEFEE @ 3733'

POINT LOOKOUT @ 4190'

MARKER JOINT @ 6278'

GALLUP @ 5561'

PERF'D 6448'-6648' W/S.F.
16 Holes.

GREENHORN @ 6310'

Note: Lower zone was wet set CIBP @
6698'. Spotted 10' CMT Plug on top of
BP.

GRANEROS @ 6367'

PERF'D 6712'-6723' W/S.F. 10 Holes
Well came in Natural. Did not FRAC.

DAKOTA @ 6487'

4-1/2" 10.5# K-55 CSG
SET @ 6756'

TD 6756'
PBTD 6742'

NOTE: Original Well bore blew in while drilling & stuck drill string.
Backed off @ 5949'. Tied into Fish and backed off @ 6231'. Tried
wash over Fish but could not locate. Spotted 215 sxs. cmt to fill
hole to 5800'. Tagged cmt @ 6184'. Re-squeeze w/195 cu.ft. cmt.
Tagged @ 6140'. Spotted 165 sxs cmt. Tagged soft cmt @ 5723'
washed to hard cmt. @ 5878'. Cir. hole spotted 89 cu.ft. cmt.
Drilled cmt. to 5796'. Began drilling side track hole. Drilled to 5885'
lost Angle and pulled out. Tripped to 5876' and cmt. 252 cu.ft. cmt.
Tripped to 5765' and cmt. 252 cu.ft. cmt. Started drilling side track
hole.

HUBBELL #5E

PROPOSED

UNIT F, SECTION 17, T-29-N, R-10-W

SAN JUAN COUNTY, NM

RECEIVED
ELP

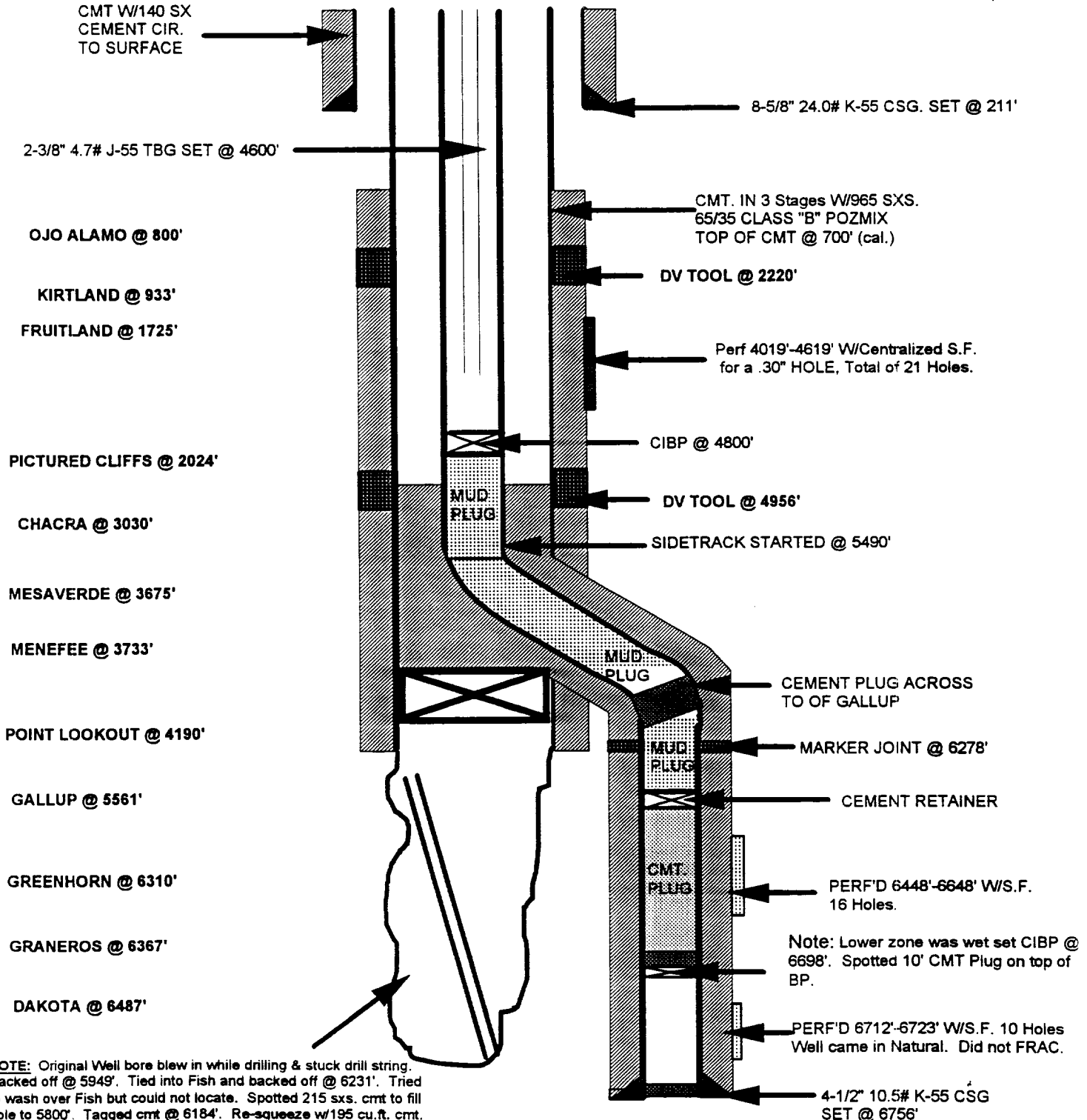
95 APR 13 PM 2:44

5698' GL

5712' KB

ON FARMINGTON, NM

COMPLETED 4/20/81



NOTE: Original Well bore blew in while drilling & stuck drill string. Backed off @ 5949'. Tied into Fish and backed off @ 6231'. Tried to wash over Fish but could not locate. Spotted 215 sxs. cmt. to fill hole to 5800'. Tagged cmt @ 6184'. Re-squeeze w/195 cu.ft. cmt. Tagged @ 6140'. Spotted 165 sxs cmt. Tagged soft cmt @ 5723' washed to hard cmt. @ 5878'. Cir. hole spotted 89 cu.ft. cmt. Drilled cmt. to 5796'. Began drilling side track hole. Drilled to 5885' lost Angle and pulled out. Tripped to 5876' and cmt. 252 cu.ft. cmt. Tripped to 5765' and cmt. 252 cu.ft. cmt. Started drilling side track hole.

TD 6756'
PBD 6742'

HUBBELL #5E
Recommend Recompletion Procedure
Unit F Section 17 T29N R10W

Plugging Dakota and Gallup

1. Comply to all NMOCD, BLM and MOI rules and regulations. MOL and RU a P&A rig. ND wellhead. NU 6" 900 series BOP with offset rams, flow tee and stripping head. NU blooie line and 2-7/8" relief line. Hold safety meeting.
2. Set blanking plug in S. N. at 6568' in 2-3/8" tubing and pressure test to 3000 psi. TOOH with 6619' of 2-3/8" tubing.
3. Run 4-1/2" gauge ring on sand line to 6398' (50' above the top Dakota perf). TIH with 4-1/2" cement retainer on tested 2-3/8" tubing and set at 6398'. Establish rate and squeeze Dakota perforations with 38 sacks of Cl "G" cement. This will fill the Dakota perforations and 4-1/2" casing from 6648' to 6398' with 100% excess cement.
4. Sting out of cement retainer and spot 3 sacks of cement on top of cement retainer. Spot hole with 12.5 bbls of mud: 15# sodium bentonite with non fermenting polymer, 8.4# gal weight, and 40 qs vis or greater.
5. PU tubing to 5611' (50' below the top of the Gallup). With pipe rams open, spot 12 sacks of CL "B" cement. This will fill the casing from 5611' to 5511' (50' above and below the top of the Gallup) with 50% excess cement.
6. PU tubing to 5510'. Spot hole with 11.3 bbls of mud: 15# sodium bentonite with non fermenting polymer, 8.4# gal weight, and 40 qs vis or greater.
7. Wireline set CIBP at 4800' on 2-3/8" tubing. Load hole with 1% KCl water. TOOH.
8. RU wireline and run CBL/CCL/GR from PBTD 4800' to 2800' under 1000 psi surface pressure. TIH with 4-1/2" full-bore packer and 60' of 2-3/8" tubing and pressure test casing to 3800 psi. If pressure test does not hold, TIH with packer and tubing and locate failure. Contact Production Engineering and a repair procedure will be provided. Release packer and TOOH.
9. TIH with 4590' of 2-3/8" tubing with standard seating nipple, a 6' perforated sub and one joint on bottom. Land tubing string.
10. Release P & A rig

Completion

1. Test rig anchors and repair if necessary. Install 15-400 bbl frac tanks on location and fill with 1% KCl water for fracture treatment. Filter all water to 25 microns. Heat water as required by weather.
2. MOL and RU. Comply to all NMOCD, BLM and MOI rules and regulations. Hold safety meeting. ND wellhead. NU BOP. Test operation of rams. NU two relief lines.

HUBBELL #5E
Recommend Recompletion Procedure
Unit F Section 17 T29N R10W
Page 2

3. TOOH with 4590' of 2-3/8" tubing. Check wellbore diagram for configuration. Visually inspect for and replace all bad jts.
4. TIH on 2-3/8" tubing with 4-1/2" casing scraper and 3-7/8" bit and clean out to CIBP at 4800'.OOH.

*****Point Lookout*****

5. Perforate with 3-1/8" Select-Fire HSC with centralizers and charges meeting requirements for average penetration in Berea of 12.0" and average perf diameter of 0.30". Perforate the following Point Lookout intervals with 1 spf.

4295'	4315	4388'	4505'
4298'	4341'	4409'	4529'
4302'	4355'	4412'	4532'
4305'	4375'	4461'	4543'
4310'	4378'	4492'	4619'

Total: 20 holes.

6. TIH with 4-1/2" full bore packer on 2-7/8" tubing and set at 60' only if casing tested. If casing squeeze was required, TIH to below squeeze hole with 4-1/2" packer and 2-7/8" frac string. RU stimulation company and prepare to breakdown and balloff with acid. Pump 1500 gal. of 15% HCl at 7-8 bbls/min. Drop a total of 40 7/8" 1.3 sp. gr. RCN ball sealers spaced evenly throughout the job. Record injection rate and all breakdown pressures throughout job. **Maximum pressure is 3800 psi.** Acid should contain clay stabilizer, corrosion inhibitor, and iron sequestering agent. TOOH with tubing and packer.
7. RU wireline. RIH with junk basket and retrieve ball sealers. Record number of hits and balls recovered.
8. TIH with 4-1/2" full-bore packer on 2-7/8" tubing and set at 60' only if casing tested. If casing squeeze was required, TIH to below squeeze hole with 4-1/2" packer and 2-7/8" frac string. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4800 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 3800 psi.** Fracture Point Lookout according to attached procedure. **Stimulation will be limited entry (approximately 2.0 bpm/perf), slickwater, 150,000 lbs. of 20/40 Arizona sand with maximum sand concentration of 2.0 ppg and 25% pad volume.** Flush to the top perf. Shut-in well immediately after stimulating well to keep in static condition. Release packer and TOOH.
9. Wireline set 4-1/2" RBP at 4280'. TIH with 4-1/2" full-bore packer on 2-7/8" tubing and set at 60'. Test bridge plug and casing to 3800 psi for 15 minutes. Release packer and TOOH. Run dump bailer and dump 2 sxs sand on BP.

HUBBELL #5E
Recommend Recompletion Procedure
Unit F Section 17 T29N R10W
Page 3

*****Menefee*****

10. Perforate with 3-1/8" Select-Fire HSC with centralizers and charges meeting requirements for average penetration in Berea of 12.0" and average perf diameter of 0.30". Perf the following Menefee intervals with 1 spf .

4019'	4179'	4222'	4263'
4022'	4182'	4247'	
4031'	4197'	4253'	
4139'	4209'	4255'	
4142'	4219'	4258'	

Total: 16 holes.

11. TIH with 4-1/2" full bore packer on 2-7/8" tubing and set at 60' only if casing tested. If casing squeeze was required, TIH to below squeeze hole with 4-1/2" packer and 2-7/8" frac string. RU stimulation company and prepare to breakdown and balloff with acid. Pump 1200 gal. of 15% HCl at 7-8 bbls/min. Drop a total of 32 7/8" 1.3 sp. gr. RCN ball sealers spaced evenly throughout the job. Record injection rate and all breakdown pressures throughout job. **Maximum pressure is 3800 psi.** Acid should contain clay stabilizer, corrosion inhibitor, and iron sequestering agent. Release packer and TOOH.
12. RU wireline. RIH with junk basket and retrieve ball sealers. Record number of hits and balls recovered.
13. TIH with 4-1/2" full-bore packer on 2-7/8" tubing and set at 60' only if casing tested. If casing squeeze was required, TIH to below squeeze hole with 4-1/2" packer and 2-7/8" frac string. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4800 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 3800 psi.** Fracture Menefee according to attached procedure. **Stimulation will be limited entry (approximately 2.0 bpm/perf), slickwater, 125,000 lbs. of 20/40 Arizona sand with maximum sand concentration of 2.0 ppg and 25% pad volume.** Flush to the top perf. Release packer and TOOH.
14. Flow back well (if needed) until returns diminish. TIH with retrieving head and 2-3/8" tubing and clean out to RBP at 4280' until sand returns and water production are minimal. Obtain pitot gauges. Release bridge plug and TOOH.
15. TIH with notched collar on 2-3/8" tubing and clean out to CIBP at 4800' until sand returns and water production are minimal. Obtain pitot gauges. TOOH.

HUBBELL #5E
Recommend Recompletion Procedure
Unit F Section 17 T29N R10W
Page 4

16. TIH with 4590' of 2-3/8" tubing with standard seating nipple, a 6' perforated sub and one joint with expendable check on bottom. Tag fill and do final cleanout if necessary. Land tubing string.
17. ND BOP and NU independent wellhead. Pump off check. Take final Pitot gauge and gas, oil and water samples.

Approve:

Team Leader

Approve:

Drilling Superintendent

VENDORS:

Wireline:	Petro	326-6669
Fracturing:	Dowell	325-5096
Production Engineer:	Office	326-9703
	Home	326-2381

LJB:ljb