

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <p>2. Name of Operator Meridian Oil Inc.</p> <p>3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <p>4. Location of Well, Footage, Sec., T, R, M 1190'FNL, 1590'FWL Sec.33, T-26-N, R-6-W, NMPM</p>	<p>5. Lease Number SF-079265</p> <p>6. If Indian, All. or Tribe Name</p> <p>7. Unit Agreement Name</p> <p>8. Well Name & Number Klein #28E</p> <p>9. API Well No. 30-039-</p> <p>10. Field and Pool Basin Dakota</p> <p>11. County and State Rio Arriba Co, NM</p>
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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 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 checked="" type="checkbox"/> Other - multiple complete & commingle	

13. Describe Proposed or Completed Operations

It is intended to add Niobrara and Greenhorn pay in the existing Basin Dakota wellbore per the attached procedures and wellbore diagram.

RECEIVED
SEP 10 1992
OIL CON. DIV.
DIST. 3

RECEIVED
BLM
92 SEP -1 AM 9:56
013 FARMINGTON, N.M.

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

Signed *[Signature]* (DB) Title Regulatory Affairs Date 8/26/92

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any: _____

APPROVED

SEP 04 1992

AREA MANAGER

NMOCD

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

Hold 10/19/1992
RECEIVED
BLM
92 SEP -1 AM 9:06
019 FARINGTON, N.M.

Owner Meridian Oil Inc.			Lease KLEIN (SF-079265)		Well No. 92 SEP -1 AM 9:06
Section C	Section 33	Township 26N	Range 6W	County Rio Arriba	
Actual Footage Location of Well:					
1190	feet from the	North	line and	1590	feet from the West line
Ground Level Elev. 6755	Producing Formation Takota /Gallup		Pool Basin/Undesignated		Dedicated Acreage 320/40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated by communitization, unitization, forced-pooling, or otherwise or until a non-standard unit, eliminating such interests, has been approved by the Commission.

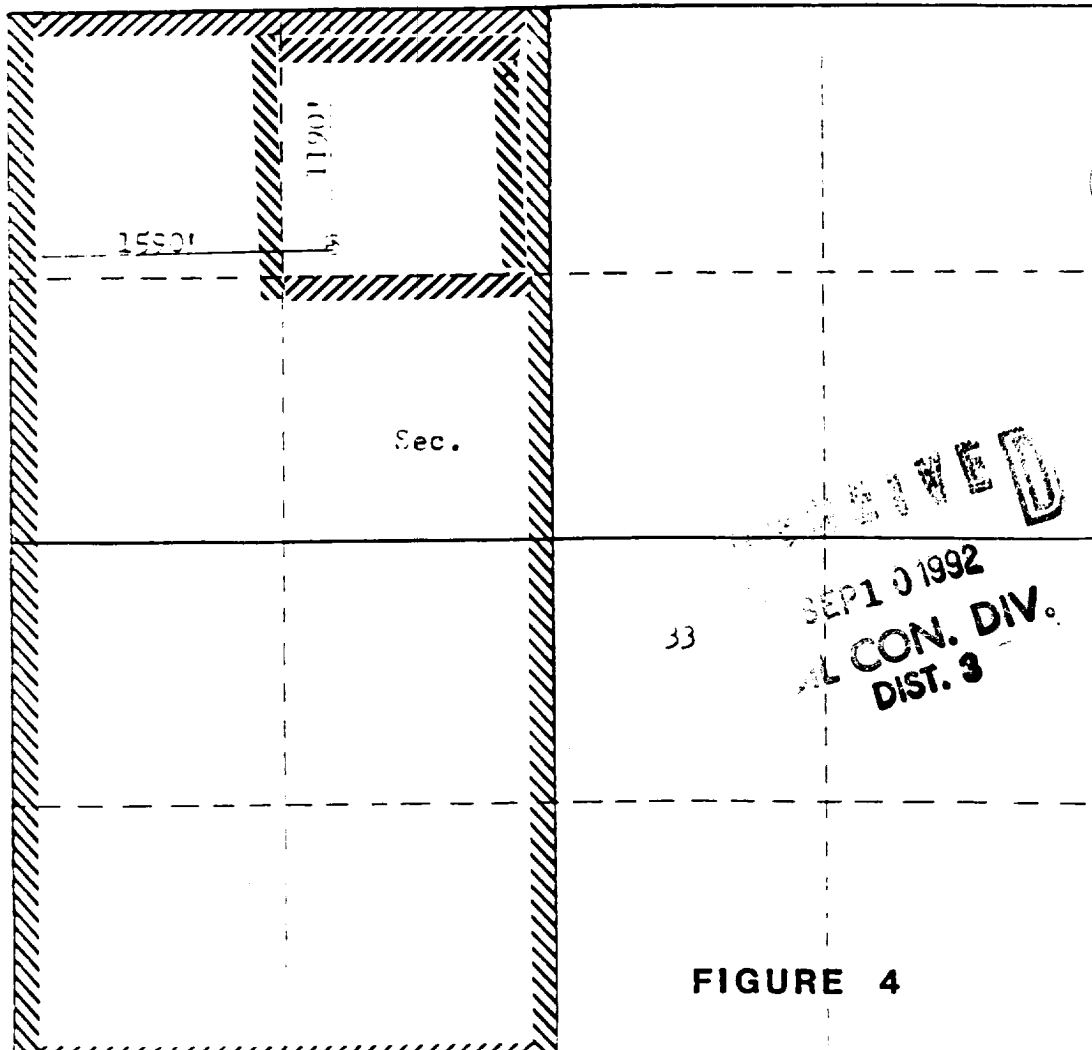


FIGURE 4

CERTIFICATION

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

Regina B. Hallfield
Name

Regulatory Affairs

Position

Meridian Oil Inc.

Company

August 28, 1992

Date

8-28-92

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

Date Surveyed

October 24, 1985

Regulatory Professional Engineer

and Licensed Surveyor

Regina B. Hallfield
Regina B. Hallfield

KLEIN #28E
Niobrara / Greenhorn Completion
NE/NW/4 Sec. 33, T26N, R06W
BLM Sundry Notification

Meridian intends to complete 931' of prospective pay in the Niobrara and Greenhorn intervals from 6204' to 7135' in the subject well. This location is not within a designated Gallup pool boundary nor is it within one mile of an existing pool. In the absence of existing pool rules, this notification is submitted based on 40 acre regular oil spacing. Prior to completion of these intervals, application will be made to the NMOCD for approval of a non-standard location. After sufficient production testing of the newly completed intervals, application will be made to the NMOCD for approval of spacing requirements, production allowables, and commingling with existing Dakota production.

It is intended to isolate the existing Dakota perforations (7195' - 7468') below a bridge plug set at +/-7150'. The Niobrara and Greenhorn intervals will be stimulated in three stages down the 4 1/2" production casing. The casing will be pressure tested to 3800 psi (maximum treating pressure) prior to the perforation of each stage. Details of each stage of the stimulation are as follows:

First Stage (6774' - 7135'):

Perforate 45' with one shot per foot for a total of 45 holes at 6774', 6778', 6823', 6845', 6847', 6857', 6865', 6877', 6951', 7021', 7030', 7035', 7041'-7043', 7082'-7088', 7092'-7097', 7099'-7104', 7108'-7110', 7112'-7117', 7120'-7123', 7126'-7128', and 7132'-7135'. Perforations will be adjusted to the cased-hole GR as needed.

Breakdown perforations with 1890 gals of 15% NEFE HCl inhibited acid.

Fracture stimulate first stage in 0.5 to 3.0 ppg stages at 30 bpm with 60,000 gal of 40# X-linked gel in 3% KCl containing 25% by volume methanol and 73,500# 20/40 mesh sand tagged with 0.3 mci Ir 192 per 1000# sand. Flush to the top perforation at 6774' with +/-108 bbls of 3% KCl.

Set a 4 1/2" bridge plug at +/-6710' (64' above top 1st stage perf @ 6774').

Second Stage (6479' - 6690'):

Perforate 51' with one shot per foot for a total of 51 holes at 6479'-6486', 6497'-6500', 6506'-6516', 6521'-6525', 6528'-6532', 6543'-6549', 6595'-6600', 6609'-6613', 6622'-6626', and 6686'-6690'. Perforations will be adjusted to the cased-hole GR as needed.

Breakdown perforations with 2142 gals of 15% NEFE HCl inhibited acid.

Fracture stimulate second stage in 1.0 to 3.0 ppg stages at 30 bpm with 68,000 gal of 40# X-linked gel in 3% KCl containing 25% by volume methanol and 104,000# 20/40 mesh sand tagged with 0.3 mci Ir 192 per 1000# sand. Flush to the top perforation at 6479' with +/-103 bbls of 3% KCl.

Set a 4 1/2" bridge plug at +/-6450' (29' above top 2nd stage perf @ 6479').

KLEIN #28E
Niobrara / Greenhorn Completion
NE/NW/4 Sec. 33, T26N, R06W
BLM Sundry Notification

Third Stage (6204' - 6440'):

Perforate 50' with one shot per foot for a total of 50 holes at 6204'-6206', 6245'-6250', 6266', 6321'-6324', 6326'-6329', 6338'-6341', 6346'-6350', 6360'-6364', 6368'-6375', 6383'-6387', 6395'-6399', 6408'-6410', 6416', 6423'-6426', and 6436'-6440'. Perforations will be adjusted to the cased-hole GR as needed.

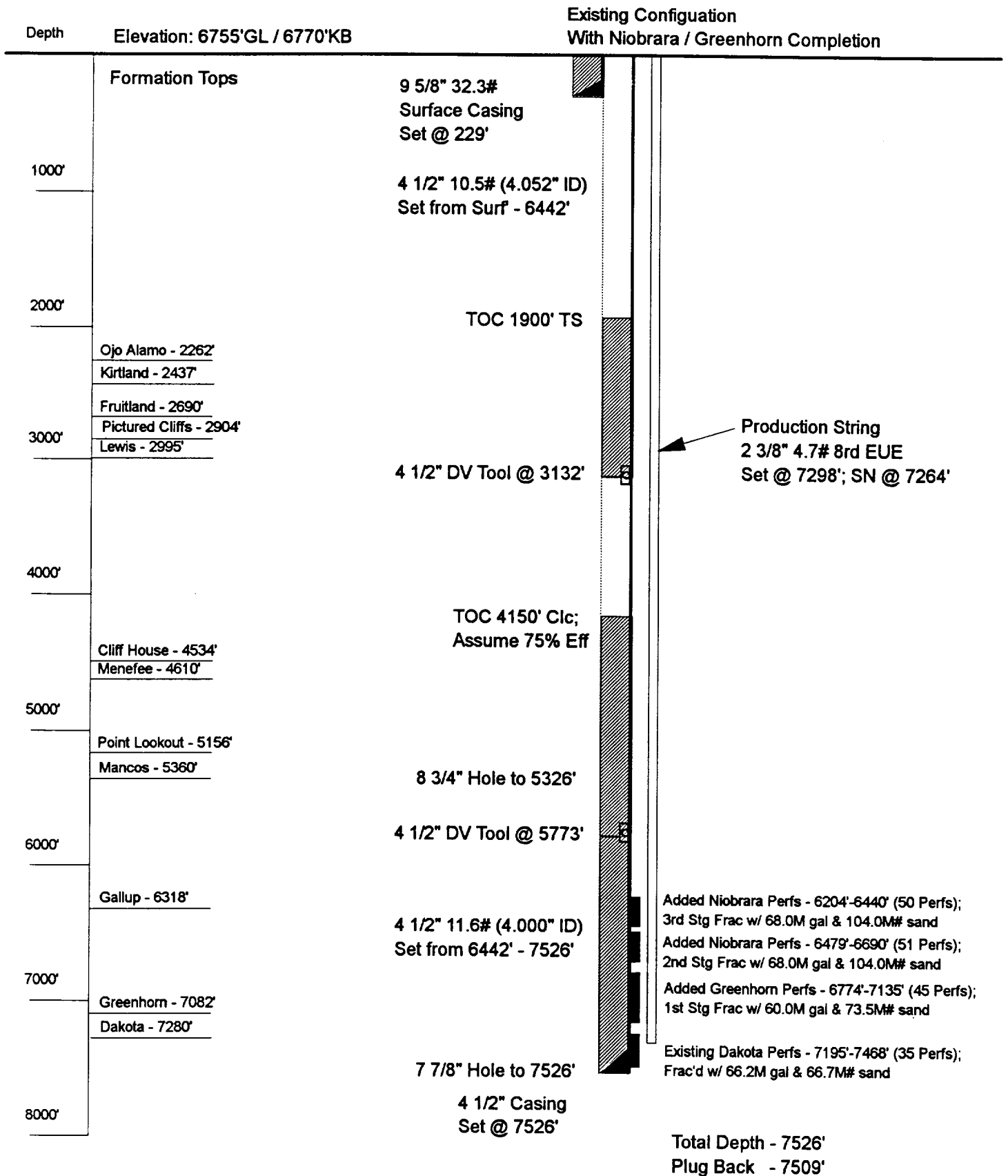
Breakdown perforations with 2100 gals of 15% NEFE HCl inhibited acid.

Fracture stimulate third stage in 1.0 to 3.0 ppg stages at 30 bpm with 68,000 gal of 40# X-linked gel in 3% KCl containing 25% by volume methanol and 104,000# 20/40 mesh sand tagged with 0.3 mci Ir 192 per 1000# sand. Flush to 200' above top perforation at 6204' with +/-96 bbls of 3% KCl.

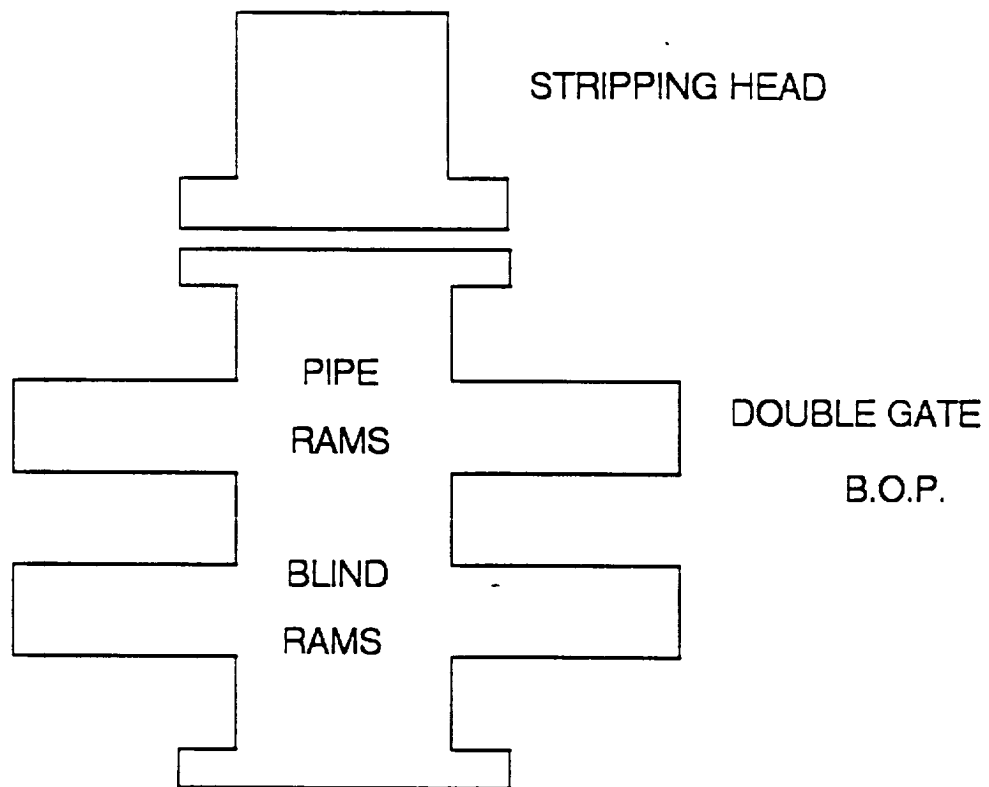
Flow back and clean out wellbore to the top of bridge plug at +/-7150'. Production test pay from 6204' - 7135' through 2 3/8" production tubing landed at +/-7075'.

After sufficient production testing and commingling authorization received, drill-out bridge plug at +/-7150' and commingle resulting production with the existing Dakota production. Produce the well through 2 3/8" production tubing landed at +/-7298'.

Klein #28E
Basin Dakota
NE/NW/4 Sec.33, T26N, R06W
Wellbore Schematic



WORKOVER / RECOMPLETION B.O.P. SCHEMATIC



MINIMUM: 6" 2000 PSI DOUBLE GATE B.O.P.
MAXIMUM ANTICIPATED SHUT-IN WELLHEAD
PRESSURE IS LESS THAN 2000 PSI