

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK PLUG BACK	RECEIVED SEP 24 1991 OIL CON. DIV DIST. 3	5. LEASE NUMBER SF 078422
1b. TYPE OF WELL GAS		6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR MERIDIAN OIL INC.	7. UNIT AGREEMENT NAME HUERFANO UNIT	
3. ADDRESS & PHONE NO. OF OPERATOR P.O. BOX 4289 FARMINGTON, NM 87499 (505) 326-9700	8. FARM OR LEASE NAME HUERFANO UNIT	
4. LOCATION OF WELL 2510' FNL, 1180' FEL	9. WELL NO. #282	
14. DISTANCE IN MILES FROM NEAREST TOWN	10. FIELD, POOL, OR WILDCAT ANGEL PEAK GALLUP	
	11. SEC. T. R. M OR BLK. Section 31, T27N, R10W	
	12. COUNTY SAN JUAN	
	13. STATE N.M.	
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE. 1180'	16. ACRES IN LEASE	17. ACRES ASSIGNED TO WELL 320.00 327.99 JT 14/302
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
21. ELEVATIONS (DF, FT, GR, ETC.) 6056' GR	22. APPROX. DATE WORK WILL START	

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

24. AUTHORIZED BY: [Signature] (PMP)
REGULATORY AFFAIRS

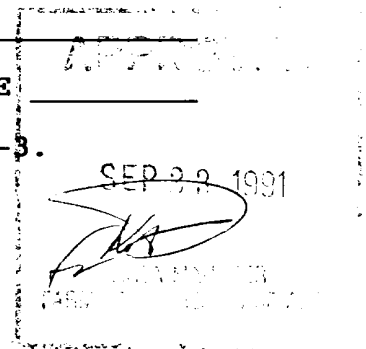
9-10-91
DATE

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3.
(NO ADDITIONAL DIRT WORK WILL BE REQUIRED)

Handwritten notes:
Hickory Creek
for 1186
SE



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-12
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

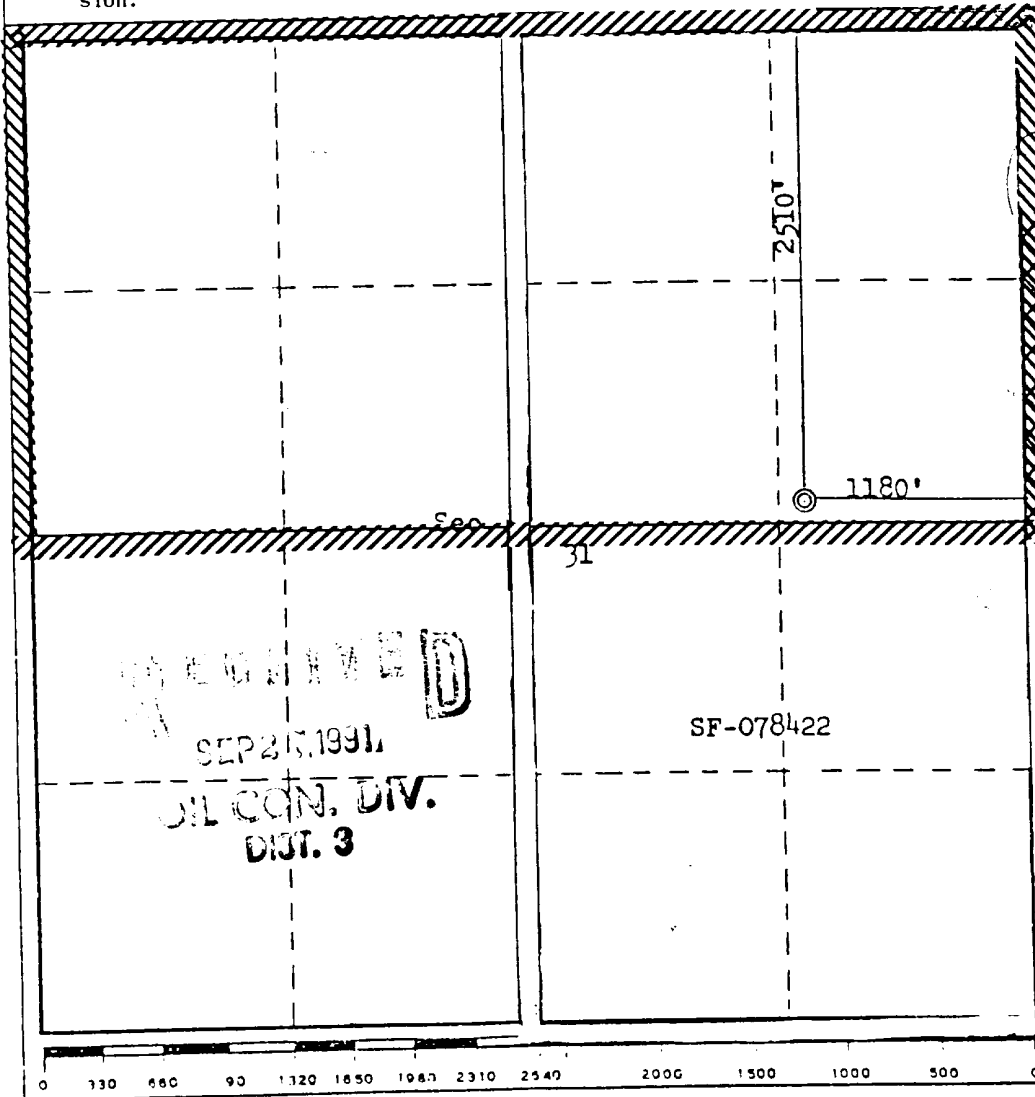
Operator Meridian Oil Inc.			Lease Huerfano Unit (SF-078422)		Well No. 282
Tract Letter H	Section 31	Township 27N	Range 10W	County San Juan	
Actual Footage Location of Well					
2510		feet from the North	Line and 1180	feet from the East	Line
Ground Level Elev. 6056	Producing Formation Gallup		Pool Angels Peak	Dedicated Acreage: 327.90 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. 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 unitization

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.



CERTIFICATION

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

Peggy Bradfield
Name

Peggy Bradfield

Position
Regulatory Affairs

Company
Meridian Oil Inc.

Date
9-26-91

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 knowledge and belief.

Date Surveyed

November 25, 1977

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

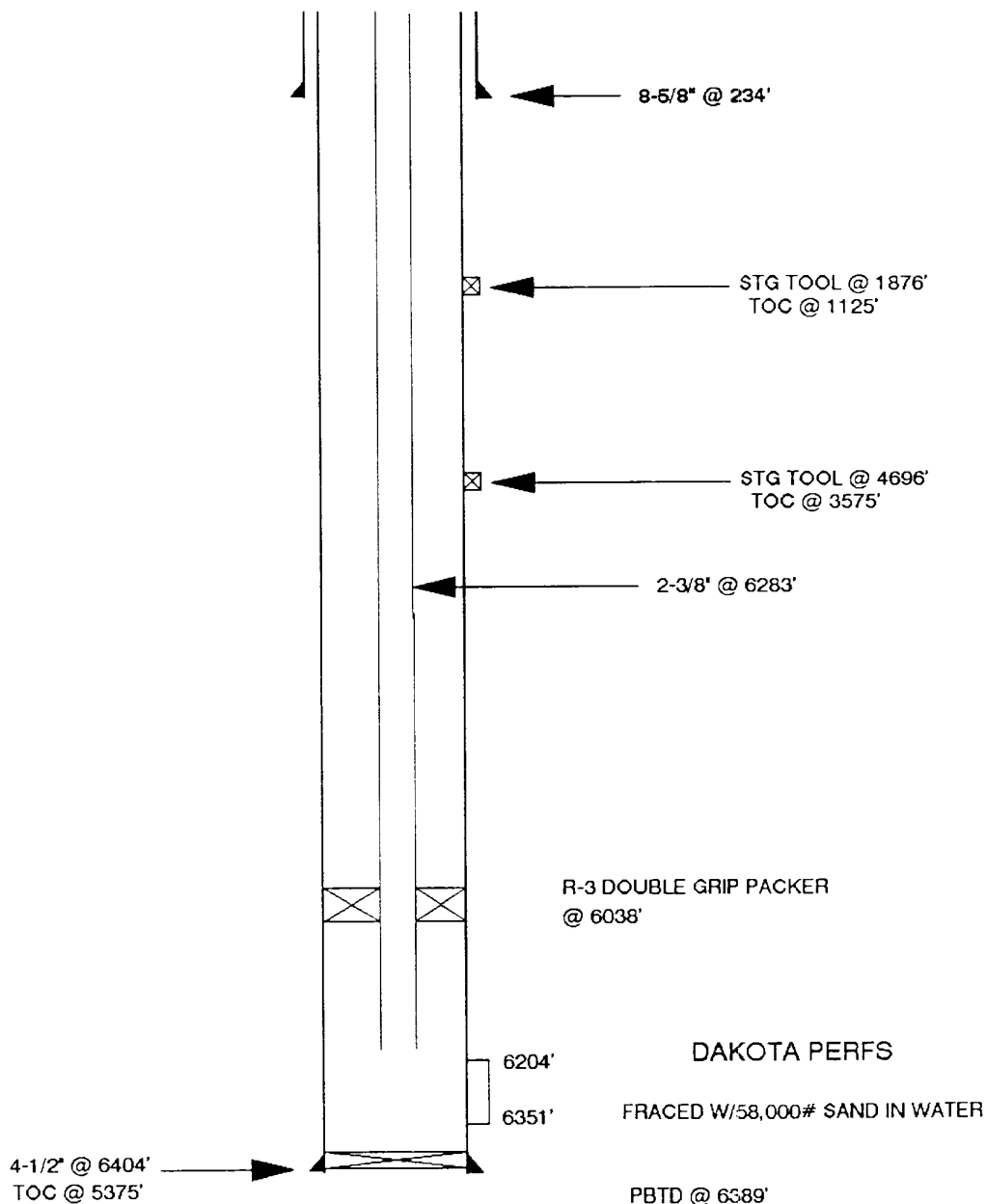
Certificate No.

3950

HUERFANO UNIT #282 DK

UNIT H SECTION 31 T27N R10W
SAN JUAN COUNTY, NEW MEXICO

CASING LEAK HAS BEEN IDENTIFIED BUT NOT LOCATED



HUERFANO UNIT #282 DK
Recommended Procedure
H 31 27 10

1. Comply to all NMOC, BLM, & MOI, rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line with 3000 psi gate valves on tubing head. Blow well down.
2. TOH W/6283' 2-3/8" tbg & R-3 Double Grip pkr. Test tbg to 2500 psi. Run 4-1/2" csg scraper on 2-3/8" tbg to 6050'. TOH. Set 4-1/2" cement retainer on 2-3/8" tbg @ 6050' & squeeze w/46 sx cmt. This will fill the Dakota perms with 100% excess cmt. Sting out of cmt ret, pump 4 sx cmt on top ret. TOH.
3. Using fullbore pkr, locate csg leak & squeeze as required. Squeeze csg leak w/bradenhead valve open & circ cmt if possible.
4. TIH w/3-7/8" bit on 2-3/8" tbg. Drill cmt & C.O.w/air/mist & pressure test to 2500 psi. Resq if necessary.
5. When csg holds 2500, perf Gallup w/1- 0.32" spf @ 5574', 72', 70', 68', 66', 64', 62', 60', 58', 56', 5502', 5498', 94', 88', 84', 78', 73', 68', 63', 17', 02', 5400', 5398', 96'. Total 24 holes.
6. TIH with 4-1/2" Baker SAP tool with a 4' spacer on 2-3/8" tbg. Wash & break down perms using 50 gallons of 15% HCL acid. Acid to contain 1 gal/1000 aqua flow, 2 gal/1000 LT-21 (clay & silt suspenders), 5 gal/1000 XA-2L (Fe control), and 2 gal/1000 I17 (corrosion inhibitor). Total acid -1200 gal.
7. Fill 9 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns.
8. Fracture treat Gallup down csg with 27,000 gals. of 30# delayed X-linked gel and 150,000# 20/40 Brady sand. Pump @ 35 BPM. Monitor bottomhole and surface treating pressures, rate, foam quality, & sand concentration, with computer van. All sand to be tagged with 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 2500 psi and estimated treating pressure is 1890 psi. Treat per the following schedule:

<u>Stage</u>	<u>Gel Vol.</u> <u>(Gals.)</u>	<u>Sand Vol.</u> <u>(lbs.)</u>
Pad	40,000	----
1.0 ppg	10,000	10,000
2.0 ppg	20,000	40,000
3.0 ppg	20,000	60,000
4.0 ppg	10,000	40,000
<u>Flush -</u>	<u>3,600</u>	<u>----</u>
Totals	100,000	150,000#

Treat frac fluid with the following additives per 1000 gallons:

HUERFANO UNIT #282 - RECOMPLETION PROCEDURE
Page 2

* 30# J-4L	(Base Gel)
* 0.75 gals CL-30	(X-Linker)
* 3.0 gals 5-L	(PH Buffer)
* 1.0 gal. Aqua-Flow	(Non-ionic Surfactant)
* 1.0# Ultra Perm	(Breaker)
* 0.5# B-5	(Breaker)
* 0.35# Fracide 20	(Bacteriacide)
* 2% KCL	

9. Shut-in well for eight hours to allow gel to break and obtain closure.
10. TIH w/notched collar on 2-3/8" tbg & C.O. to 5600' w/air/mist. Take pitot gauges when possible.
11. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 5600'-5000'. Also check location of squeezed csg leak.
12. TIH with 2-3/8" tbg with standard seating nipple one joint off open ended bottom. Land tbg @ 5550'.
13. ND BOP and NU wellhead. Rig down & release rig.

Approve: _____
R. F. Headrick

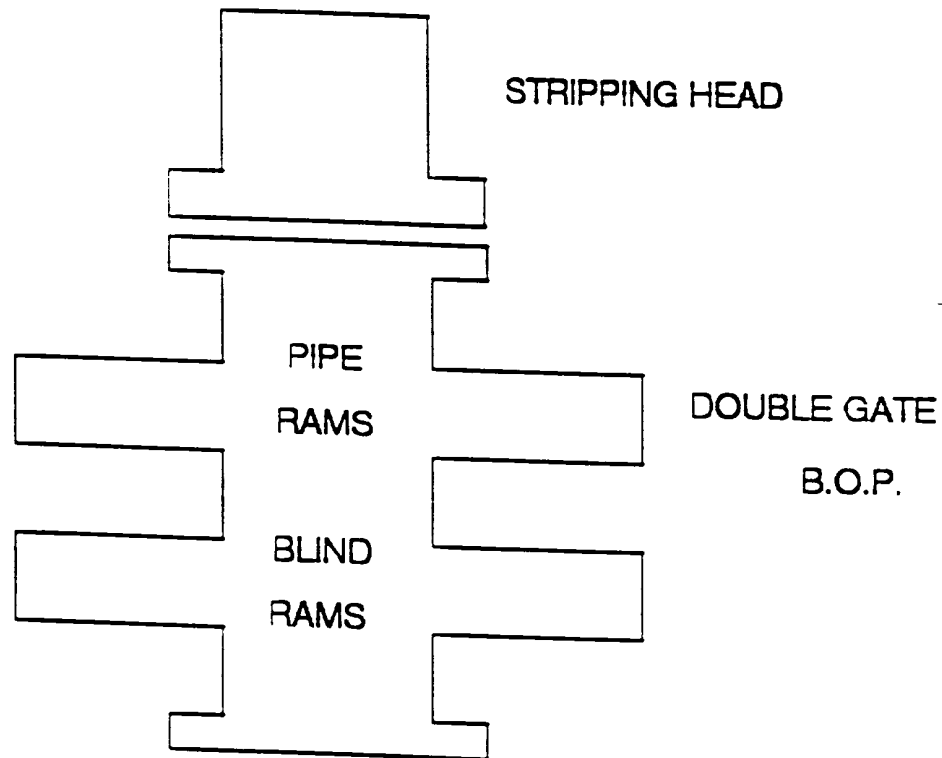
VENDORS:

Wireline:	Basin	327-5244
Fracturing:	Western	327-6222
RA Tagging:	Pro-Technics	326-7133

CONSULTANT: Alan Errett 327-5444

PMP

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