

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

cc: 5 OCD
1 Well File

Form C-101
Revised 1-1-89

API NO. (assigned by OCD on New Wells) <u>30-045-20955</u>					
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
6. State Oil & Gas Lease No. NM N5 277210					
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					
1a. Type of Work: DRILL <input type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/>					
b. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>					
2. Name of Operator Merrion Oil & Gas Corporation					
3. Address of Operator P. O. Box 840, Farmington, NM 87499					
7. Lease Name or Unit Agreement Name Snake Eyes					
8. Well No. 2					
9. Pool name or Wildcat Snake Eyes Dakota "D"					
4. Well Location Unit Letter <u>K</u> : <u>1980</u> Feet From The <u>South</u> Line and <u>1980</u> Feet From The <u>West</u> Line Section <u>20</u> Township <u>21N</u> Range <u>8W</u> NMPM <u>San Juan</u> County					
10. Proposed Depth 4700'					
11. Formation Dakota					
12. Rotary or C.T.					
13. Elevations (Show whether DF, RT, GR, etc.) 6560' GL					
14. Kind & Status Plug Bond P&A					
15. Drilling Contractor					
16. Approx. Date Work will start					
17. PROPOSED CASING AND CEMENT PROGRAM <u>W/320</u>					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP

We would like to reenter the Snake Eyes #2 (currently P&A'd) and complete the well in the Dakota Formation. Attached is a procedure for your approval.

RECEIVED

DEC 06 1990

OIL CON. DIV.
DIST. 3

APPROVAL EXPIRES 6-10-91
UNLESS DRILLING IS COMMENCED.
SPUD NOTICE MUST BE SUBMITTED
WITHIN 10 DAYS.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE George F. Sharpe TITLE Engineer DATE 12-6-90
TYPE OR PRINT NAME George F. Sharpe TELEPHONE NO. 505-327-9801

(This space for State Use)

APPROVED BY Emilio Buach DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE DEC 10 1990
CONDITIONS OF APPROVAL, IF ANY: Held 6-10-91 FOR ~~NSL~~

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

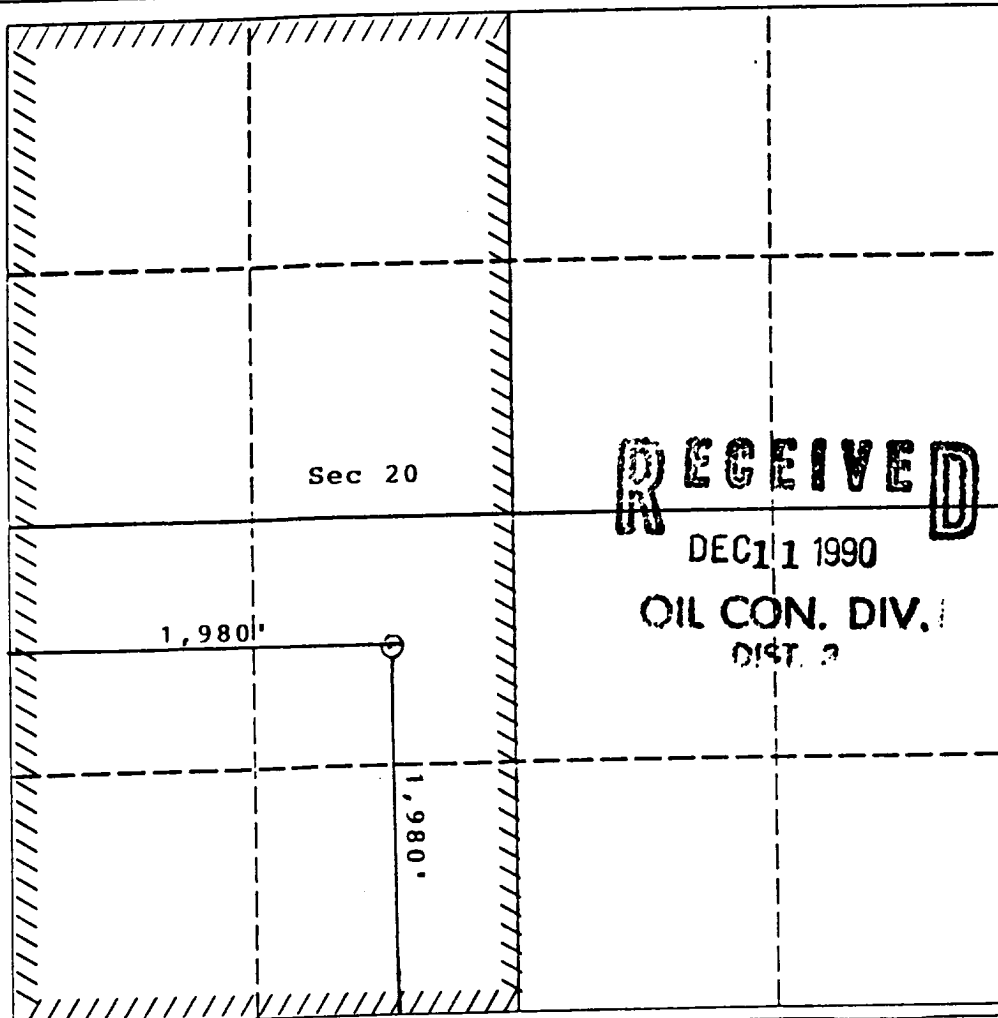
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Merrion Oil & Gas Corporation			Lease Snake Eyes		Well No. 2
Unit Letter K	Section 20	Township 21N	Range 8W	County San Juan	
Actual Footage Location of Well: 1980' feet from the South line and 1980' feet from the West line					
Ground level Elev. 6,560'		Producing Formation Dakota		Pool Snake Eyes Dakota	Dedicated Acreage: 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 interest 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 interest, has been approved by the Division.



RECEIVED
DEC 11 1990
OIL CON. DIV.
DIST. 3

OPERATOR CERTIFICATION

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

Signature *George F. Sharpe*
Printed Name **George F. Sharpe**
Position **Engineer**
Company **Merrion Oil & Gas**
Date **10-26-90**

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 knowledge and belief.

Date Surveyed _____
Signature & Seal of Professional Surveyor _____
Certificate No. _____

cc: 3 OCD, Aztec
1 Well File

MERRION OIL & GAS CORPORATION

SNAKE EYES NO. 2

Re-Entry Procedure

LOCATION: 1980' FSL & 1980' FWL
Sec. 20, T21N, R8W
San Juan County, New Mexico

October 23, 1990

ELEVATION: 6560' GL
6572' KB

Prepared by: George F. Sharpe

-
- 1.) Cut off dry hole marker. Weld on bradenhead. Set anchors.
 - 2.) MIRU. NU BOPs. Pick up 7-7/8" bit and drill collars. Drill out following cement plugs tripping for bit when necessary:

0 - 28'
42' - 160'
223' - 400'
902' - 950' 5-1/2" casing top

- 3.) POH w/ 7-7/8" bit. RIH w/ flat bottom mill and mill off top of 5-1/2" csg. POH. RIH w/ washpipe shoe. Wash over 5-1/2" csg to $\pm 960'$ KB. POH. RIH w/ mill and dress off top of 5-1/2". POH.
- 4.) Pick up and RIH w/ 5-1/2" 15.5# csg w/ csg patch. Tie on to 5-1/2" @ 950'. Land 5-1/2" and install csg head.
- 5.) RIH w/ 4-3/4" bit and drill out cmt plug 950' to 1050'. Pressure test csg. If test good, go to step 9 and perform remedial cement job at a later date. If csg leaks, continue in hole and tag cement plug @ 4463'. Drill 50' to insure no trash in cement. Circ hole clean. POH.
- 6.) RU Wireline. Run CBL from 3500' to TOC ($\pm 2000'$). RIH and perf sqz holes above TOC. RIH w/ tbg and CICR and set above squeeze holes.
- 7.) RU Cementers. Establish circulation. Cement csg to surface w/ procedure supplied @ later date. POH.
- 8.) RIH w/ 4-3/4" bit and drill out cmt through sqz holes. Pressure test csg to 1000 psi.

- 9.) Continue in hole and drill out cmt plug 4463' - 4620'. Circ hole clean. Swab well down to 2000'. POH.
- 10.) Run GR correlation log from PBTD to 3400'. RIH w/ 4" csg guns and perf 4580' - 4584' (5') and 4605' - 4608' (4') w/ 2 SPF (18 holes) @ 90°. (Induction log) POH. Swab in and test zone through a separator. Acidize if necessary.
- 11.) If zone looks wet, squeeze w/ 50 sx.
- 12.) Swab well down to 1500'. RIH w/ 4" csg guns and perf 4555' - 4560' (5') w/ 4 SPF (20 holes) @ 90°. RIH w/ 2-7/8" production string. Swab in and test through separator. Acidize if necessary. RDMOL.

Approved: _____

Date: 10-24-90

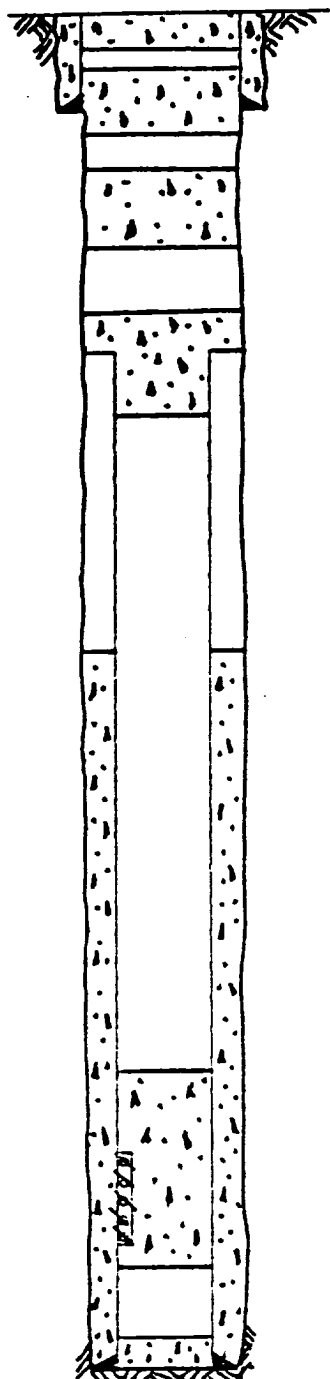
* MERRION OIL & GAS *

WELLBORE SCHEMATIC

Well: Snake Eyes No. 2
Field: Snake Eyes Dakota

Location: 1980'FSL & 1980'FWL
Sec. 20, T21N, R8W
San Juan Co. New Mexico
Operator: Tenneco

Elevation: 6.572' KB
6.560' GL



TOC @ Surface
Surface Plug w/10sx from 28' to surface

8 5/8" 24# Surface @ 62' KB w/ 40sx
Cement Plug w/40sx @ 160-42'KB

Cement Plug w/60sx @ 223-400'KB

Cut off Casing @ 950'KB
Cement Plug w/50sx - 902-1.050'KB est.

TOC @ 2.044'KB est

Hole size - 7 7/8"

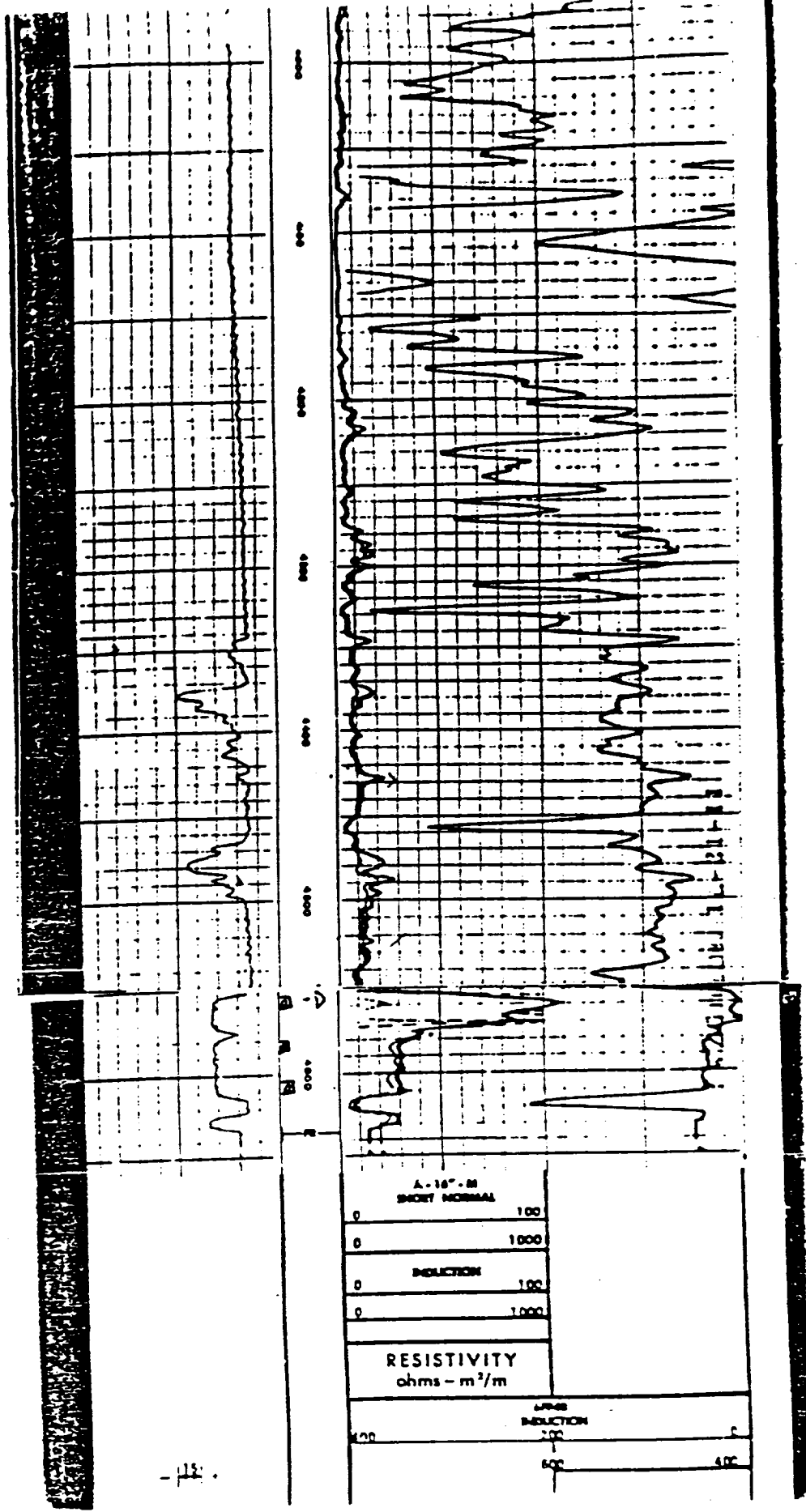
Cement Plug w/25sx @ 4.463-4.650'KB

Dakota Perfs:
4.555-4.560'
4.580-4.584'
4.605-4.608'

5 1/2" 15.5# Casing @ 4.630'KB w/ 300sx
TD @ 4.630' KB

Tops	Depth
Fruitland	Surface
Pic Cliff	260
Cliffhouse	560
Menefee	610
Pt Lookout	2.550
Mancos	2.670
Gallup	3.450
Dakota	4.375

Capacities: 2 3/8" Tbg - 0.00387 Bbl/Ft
5 1/2" 15.5#Csg- 0.0238 Bbl/Ft
Annulus - 0.1732 Cuft/Ft



A - 16" - M	
SHORT NORMAL	
0	100
0	1000
INDUCTION	
0	100
0	1000
RESISTIVITY	
ohms - m ² /m	
0	100
0	1000

INDUCTION
100
500

100

