

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Merrion Oil & Gas Corporation

3. ADDRESS OF OPERATOR

P. O. Box 1017, Farmington

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface 790 FNL & 790 FEL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 12 miles NE of Lybrook

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 790'

16. NO. OF ACRES IN LEASE N. M.

560

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 3400'

19. PROPOSED DEPTH

5875

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6320' GL

22. APPROX. DATE WORK WILL START*

Spring, 1982

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	20 #/ft.	200	175 sx
7-7/8"	4-1/2"	10.5 #/ft.	5875	875 sx.

Propose to drill 12-1/4" hole to 200 ft., set 200 ft. of 8-5/8" 20 #/ft. new surface casing w/175 sx Class 'B' 2% CACL₂. Will drill 7-7/8" hole to TD and run open hole logs. If logs appear productive will run 4-1/2", K-55, 10.5 #/ft. new casing to TD and 2 stage cement. 1st stage 175 sx Class 'H' 2% gel to cover Gallup. Stage tool below point lookout @ 4675' est. 2nd stage 600 sx Class 'B' w/2% D-79 followed by 100 sx Class 'H' 2% gel. Will bring cement above Ojo Alamo. Drilling mud will be low water loss gel, fresh water, starch. Will perforate and frac as necessary. Blowout prevention equipment will be 10" 900 series double ram.

Estimated Tops:

San Jose	Surface
Ojo Alamo	1508
Pictured Cliffs	2163
Mesa Verde	3723
Gallup	5483

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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE

Operations Manager

DATE 3/8/82

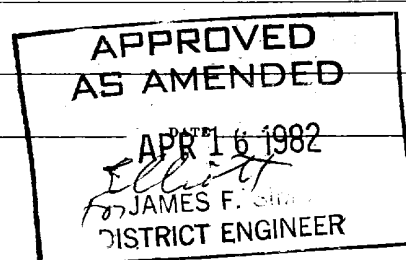
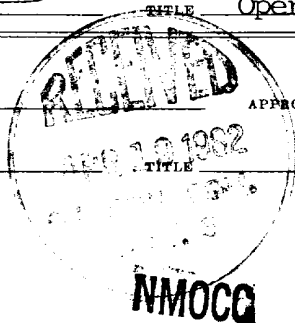
(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:



OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-78

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

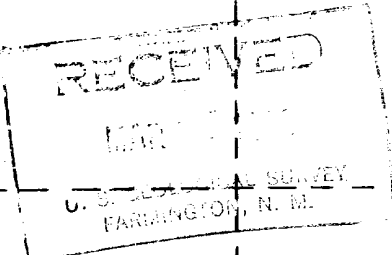
Operator MERRION OIL & GAS CORPORATION			Lease Canyon Largo Unit		Well No. 313
Unit Letter A	Section 28	Township 25N	Range 6W	County Rio Arriba	
Actual Footage Location of Well: 790' feet from the North line and 790' feet from the East line					
Ground Level Elev. 6320	Producing Formation Gallup		Pool Devils Fork Gallup		Dedicated Acreage: 160 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 _____

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.

 Sec.	SF 079071
	28



CERTIFICATION

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

Name

Steve S. Dunn

Position

Operations Manager

Company

Merrion Oil & Gas Corporation

Date

3/8/82

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

March 4, 1982

Registered Professional Engineer
and/or Land Surveyor

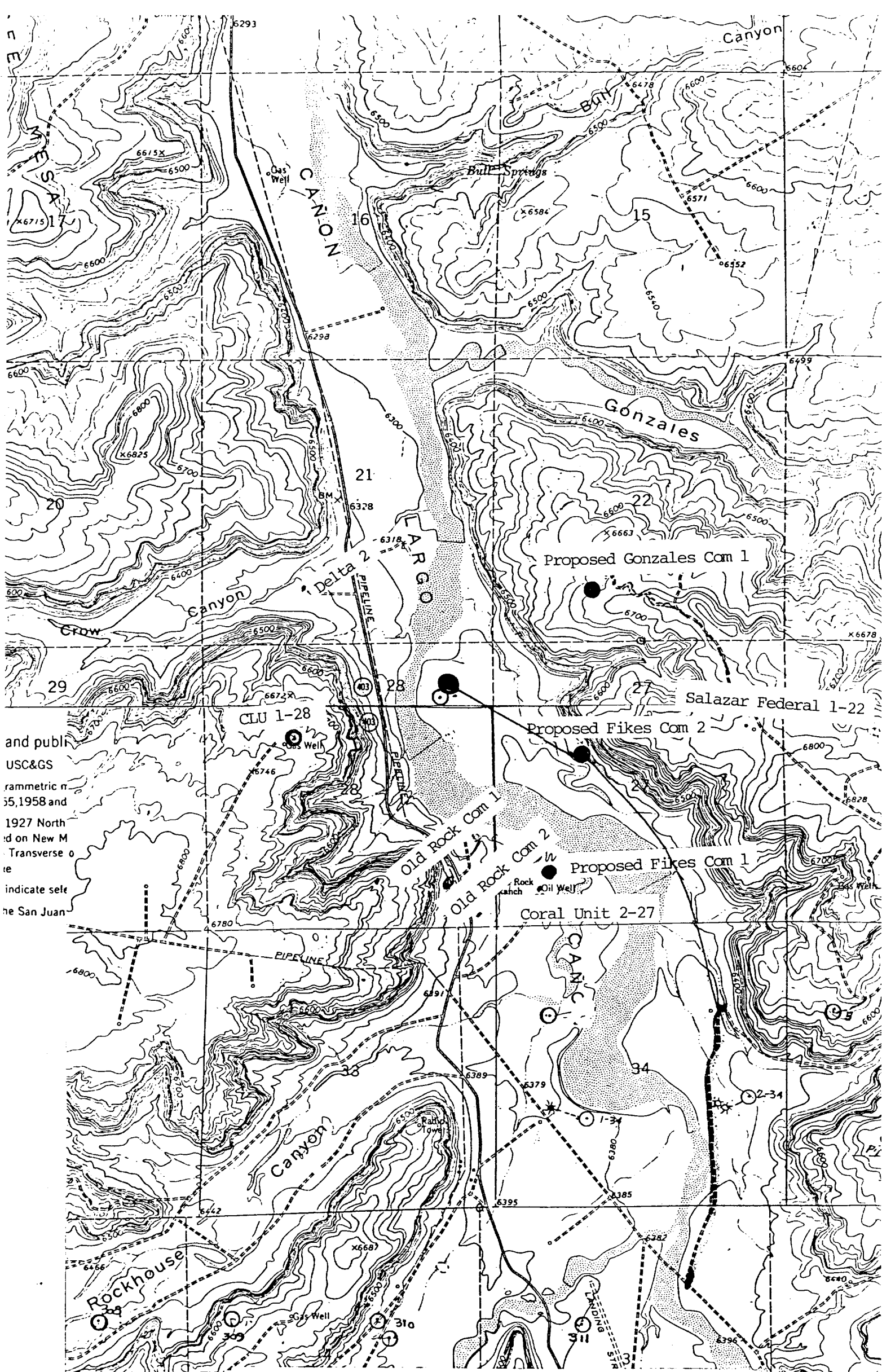
Fred B. Kerr Jr.

Certificate No.

3950

F. B. KERR, JR.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0



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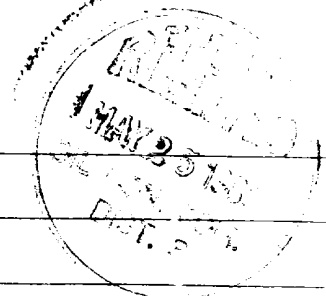
Vicinity Map for
MERRION OIL & GAS CORP. Canyon Largo Unit 313
790'FNL 790'FEL Sec. 28-T25N-R6W
RIO A RRIBA COUNTY, NEW MEXICO

Proposed Access.
Water:
Existing Road: ●—●

DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRODUCTION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104
Effective 1-1-83



Operator
Merrion Oil & Gas Corporation
Address
P. O. Box 1017, Farmington, New Mexico 87401

Reason(s) for filing (Check proper box)	Other (Please explain)
New Well <input checked="" type="checkbox"/>	Completion of additional zones in same formation.
Recompletion <input type="checkbox"/>	
Change in Ownership <input type="checkbox"/>	
Change in Transporter of:	
Oil <input type="checkbox"/>	Dry Gas <input type="checkbox"/>
Casinghead Gas <input type="checkbox"/>	Condensate <input type="checkbox"/>

If change of ownership give name and address of previous owner _____

I. DESCRIPTION OF WELL AND LEASE

Lease Name Canyon Largo Unit	Well No. 313	Pool Name, Including Formation Devils Fork Gallup	Kind of Lease State, Federal or Free Federal	Lease SF 07 07
Location Unit Letter <u>A</u> : <u>790</u> Feet From The <u>North</u> Line and <u>790</u> Feet From The <u>East</u>				
Line of Section <u>28</u> Township <u>25N</u> Range <u>6W</u> , NMPM, Rio Arriba Co				

I. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Permian Corporation	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1702, Farmington, New Mexico 87401					
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> El Paso Natural Gas Company	Address (Give address to which approved copy of this form is to be sent) P. O. Box 990, Farmington, New Mexico 87401					
If well produces oil or liquids, give location of tanks.	Unit A	Sec. 28	Twp. 25N	Rge. 6W	Is gas actually connected? No	When As soon as possible

If this production is commingled with that from any other lease or pool, give commingling order number: _____

V. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well XX	Gas Well	New Well XX	Workover	Deepen	Plug Back	Same Restv.	Diff.
Date Spudded 4/22/82	Date Compl. Ready to Prod. 5/15/82	Total Depth 6020' KB	P.B.T.D. 5960' KB					
Elevations (DF, RKB, RT, CR, etc.) 6320' GL, 6333' KB	Name of Producing Formation Gallup	Top Oil/Gas Pay 4689' KB	Tubing Depth 5566' KB					
Perforations 5878 - 86, 5 holes, 5906 - 16, 6 holes, 5925 - 27, 2 holes, 5940 - 60, 11 holes, 5587 - 94, 9 holes, 5598 - 5600, 2 holes, 5640 - 60,			Depth Casing Shoe 6019' KB					
TUBING, CASING, AND CEMENTING RECORD 11 holes. 5678 - 94, 9 holes								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
12-1/4"	8-5/8"	203' KB	170 sx.					
7-7/8"	4-1/2"	6019' KB	225 sx Class H w/ 2% gel. 700 sx Class B w/2% D-79					
	2-3/8	5566' KB						

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top able for this depth or be for full 24 hours)

Date First New Oil Run To Tanks 5/15/82	Date of Test 5/23/82	Producing Method (Flow, pump, gas lift, etc.) Flowing	
Length of Test 24 hours	Tubing Pressure 50	Casing Pressure 350	Choke Size 3/4"
Actual Prod. During Test	Oil - Bbls. 762 Bbls/D	Water - Bbls. -0-	Gas - MCF 1900 MCF/D

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

(Signature)

Steve S. Dunn, Operations Manager
(Title)

5/24/82
(Date)

OIL CONSERVATION COMMISSION

MAY 25 1982

APPROVED _____, 19____

BY Original Signed by FRANK T. CHAVEZ

SUPERVISOR DISTRICT #3

TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deep well, this form must be accompanied by a tabulation of the dev tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for able on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of well name or number, or transporter, or other such change of con

AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS
MERRION OIL & GAS CORPORATION
Canyon Largo Unit 313



IV. Con't.

Perforations:

4689 - 4695', 4 holes
4716 - 4724', 5 holes
4738 - 4742', 3 holes
4782 - 4792', 6 holes
4804 - 4810', 4 holes

Total of 77 holes. .340".

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

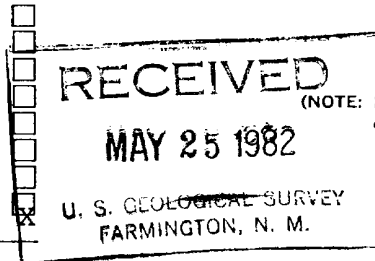
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Merrion Oil & Gas Corporation
3. ADDRESS OF OPERATOR
P. O. Box 1017, Farmington, New Mexico
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 790' FNL and 790' FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Completion ☒

SUBSEQUENT REPORT OF:



5. LEASE
SF 079071
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
9. WELL NO.
Canyon Largo Unit
10. FIELD OR WILDCAT NAME
313
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 28, T25N, R6W
12. COUNTY OR PARISH
Rio Arriba
13. STATE
New Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
6320' G.L.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See Attached.



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED [Signature] TITLE Operations Manager DATE 5/24/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

MAY 27 1982

FARMINGTON DISTRICT

BY [Signature]

*See Instructions on Reverse Side

NMOCC

MERRION OIL & GAS CORPORATION

CANYON LARGO UNIT 313

Sec. 28, T25N, R6W

Rio Arriba County, New Mexico

- 5/22/82 Trip in hole w/tubing and retrieving head. Reverse circulate 50' of sand and release bridge plug @ 4770' KB. Well came in making gas and oil, kill well and pull above top perf. Well came in again. Flow well through the tubing overnight.
- 5/23/82 Well made 30 Bbls in 12 hours. Choked through a 2" valve overnight. Killed well and pulled bridge plug. Came in making gas and oil. Flowed the head off. Killed well. Pulled bridge plug #2. Broke a hydraulic line on the rig. SDOWE. Well open to production tanks. Well came in sometime Saturday evening and made 508 Bbls overnight production tank



MERRION OIL & GAS CORPORATION

CANYON LARGO UNIT 313
Sec. 28, T25N, R6W
Rio Arriba County, New Mexico

5/20/82 Con't.

1st Setting @ 4804 - 4810' KB, 4 holes, Communicated.
Well started flowing, shut in backside and continue.
2nd Setting @ 4782 - 4792' KB, 6 holes, pump in @ 2000 PSI, ISIP
1500 PSI.
3rd Setting @ 4738 - 4742' KB, 3 holes, pump in @ 2000 PSI, ISIP
1800 PSI.
4th Setting @ 4716 - 4724' KB, 5 holes, pump in @ 2000 PSI, ISIP
1500 PSI.
5th Setting @ 4689 - 4695' KB, 4 holes, pump in @ 2000 PSI, ISIP
1700 PSI.

Pull 10 stands and shut well in overnight. SDON.

5/21/82

Completed temporary gas sales line across Largo Wash. Lower straddle
packers to below all Third Stage perfs and circulated the hole dry w/
Nitrogen. Pulled all tubing and straddle packers. TIH w/Model R packer
and set @ 4770' KB to test perfs @ 4782' - 4792' KB and 4804' - 4810' KB.
Well was dead. First swab run, made 1 pint of water, no gas. Wait 30
minutes. Made another dry swab run. Pull packer to 4675' KB and set above
perfs @ 4689' - 4695' KB. Made 2 swab runs in 30 minutes. No fluid on
either run. Pull tubing and packer and rig up Western to frac. Third
Stage Gallup w/2% KCL water 1 gal/1000 Aquaflow 75 quality foam as follows:

6000 Gal.	Foam Pad
6000 Gal.	1/2 #/gal. 20/40 sand
6000 Gal.	1 #/gal. 20/40 sand
6000 Gal.	1-1/2 #/gal. 20/40 sand
6000 Gal.	2 #/gal. 20/40 sand
6000 Gal.	Foam Pad w/10 ball sealers.
6000 Gal.	1/2 #/gal. 20/40 sand
6000 Gal.	1 #/gal. 20/40 sand
6000 Gal.	1-1/2 #/gal. 20/40 sand
6000 Gal.	2 #/gal. 20/40 sand
3129 Gal.	Foam flush

Total sand 60,000 Lbs. 20/40 sand.

Total N₂ 1,314,742 SCF

Avg. treating pressure 3800 PSI

Total Rate 30 BPM dropped rate to 25 BPM during 1# sand after ball drop.

ISIP 3100 PSI

Pressure after 15 min. 2950 PSI

Total Fluid 378 Bbls 2% KCL water w/1 gal/1000 Aquaflow.

Shut well in 2 hours and flow back to reserve pit through 1/2" choke over-
night. SDON.

5/22/82

Well flowing to frac tank made 35 Bbls in 11 hours. Approximately 90% water.
Well flowing. No pressure. Took 1/2" choke out of the line and well started
gassing strong and making fluid.

MERRION OIL & GAS CORPORATION

CANYON LARGO UNIT 313
 Sec. 28, T25N, R6W
 Rio Arriba County, New Mexico

5/18/82 Con't.

Interval	Breakdown PSIG	Pump in PSIG	ISDP PSIG
5678 - 94	1500	800	500
5640 - 60	1700	800	400
5598 - 5600	1800	1600	1000
5587 - 89	2500	2200	1000

5/19/82 Pulled packers above perfs. SDON/
 2nd Stage Frac.
 Unload the hole w/Western Nitrogen. Tubing @ 5735' KB.
 Pull tubing and packers. Rig up to frac w/Western.

15,000 Gal.	Foam Pad
5,000 Gal.	1/2 #/gal. 20/40 sand
5,000 Gal.	1 #/gal. 20/40 sand
49,000 Gal.	1-1/2 #/gal. 20/40 sand
20,000 Gal.	2 #/gal. 20/40 sand
3,730 Gal.	Foam Flush

75% foam, 2% KCL 1 gal/1000 Aquaflow.
 Total fluid 592 Gals 2% KCL 1 gal/1000 Aquaflow.
 Avg. rate 30 BPM
 Avg. treating pressure 3700 PSI
 ISDP 3000 PSI
 Total N₂ 2,128,128 SCF

5/20/82 Shut in 2 hours and flow back to reserve pit through 1/2" choke until well started making oil. Put flow to frac tank and left open overnight.
 Flowing 150 PSIG on 1/2" choke. Well made 126 Bbls total fluid overnight in 14 hours. Rate @ 8:00 AM was 11 Bbls/hr. Approximately 20% water 80% oil. Estimated 24 hour rate. 264 BOPD, 250 MCF/D.
 Blue Jet set wireline retrievable bridge plug @ 4850' KB. Western pressure tested to 4,200 PSI. Bridge plug held good. Perforate Third Stage per Gamma Ray Correlation log as follows:

4 holes 6' from 4689 - 4695' KB.
 5 holes 8' from 4716 - 4724' KB.
 3 holes 4' from 4738 - 4742' KB.
 6 holes 10' from 4782 - 4792' KB.
 4 holes 6' from 4804 - 4810' KB.
 Total 22 holes.

Ran Baker Service Tools straddle packers and collar locator. Well started flowing water and gas w/tubing halfway in hole. Circulated gas out and killed the well. Set tubing 10' below bottom perfs and fill hole w/frac fluid and spot 250 gal. 15% HCL. Straddle pack and breakdown 5 different sets of perfs.

MERRION OIL & GAS CORPORATION

CANYON LARGO UNIT 313
 Sec. 28, T25N, R6W
 Rio Arriba County, New Mexico

- 5/10/82 Move in, rig up Bayless Rig 3 and pick up tubing off catwalk to drill out stage tool @ 4753' KB w/casing scraper and 3-7/8 Smith bit. Drilled out stage tool and pressure test. Pumped into something @ 1400 PSI. 1 BPM. ISIP 900 PSI. Drilled out float @ 5975' KB and tried to drill out the bottom of the shoe. Bit quit drilling. Pull 10 stands and prepare to trip bit. SDON.
- 5/11/82 Round trip for bit. Drill out float and shoe, found bottom of casing @ 6017' KB. Trip out. Rig up Bluejet, ran Gamma Ray Correlation Log from 6000' to 3700' w/cement bond - VDL. Found bottom of 1st Stage cement @ 5944' KB. Perforated 2 squeeze holes @ 5950' KB w/3-1/8" casing gun. Ran Baker retainer on 2-3/8" tubing and set @ 6003' KB. Rig up Dowell, pressure tested tubing to 4000 PSIG, OK. Established circulation under retainer. Mixed 35 sx Class H 1% CACL₂ @ 15.6 #/gal, yield 1.18 ft³/sx. Displaced w/23 Bbls water. Pulled out of retainer up hole 17 stands. Reversed tubing clean and squeezed on perforations. Held 2000 PSI for 10 minutes. Left shut-in est. 200 ft. of cement in casing. WOCT.
- 5/12/82 Waiting on cement. Set production unit and work on tank battery.
- 5/13/82 Trip in hole w/3-7/8 bit and casing scraper to drill out squeeze cement. Tag cement @ 5550' KB. Drill out cement to 6000' KB @ retainer. Pull 310' off bottom and SDON.
- 5/14/82 Rig up Western. Rolled hole w/10 Bbls gel plug and loaded w/frac fluid. Spotted 250 gal. 15% HCL. Trip out. Rig up Blue Jet. Perforated 1st Stage, 5878 - 86, 5 holes, 5906 - 16, 6 holes, 5925 - 27, 2 holes, 5940 - 60, 11 holes, total 24 holes. Run straddle packers and broke down perfs. 5940 - 60 communicated w/ISDP 500 PSI. 5925 - 27, ISDP 700 PSIG, 5906 - 16, ISDP 900 PSIG. 5878 - 86, ISDP 1400 PSIG. SDON.
- 5/16/82 Unloaded hole w N₂. Trip out w/tubing. Fraced 1st Stage w/75 Quality foam, 2% KCL, 1 gal/1000 Aquaflow, as follows:
- | | |
|-------------|-------------------------|
| 12,000 Gal. | Pad |
| 6,000 Gal. | 1/2 #/gal. 20/40 sand |
| 6,000 Gal. | 1 #/gal. 20/40 sand |
| 12,000 Gal. | 1-1/2 #/gal. 20/40 sand |
| 12,720 Gal. | 2 #/gal. 20/40 sand |
- Screened out frac w/52,388 lbs in. 43,388 lbs in formation.
 Rate 30 BPM
 Pressure 3500 PSIG.
 ISDP 2900 PSIG to 2800 PSIG in 15 minutes.
 Shut in 2 hours. Flow back on 1/2" choke and put into frac tank.
- 5/17/82 Flowing 1st Stage to frac tank.
- 5/18/82 Flowing w/225 PSIG behind 1/2" choke. Made 497 Bbls gross fluid over weekend. 471 Bbls oil, 26 Bbls H₂O. Took flowrate. Made 16.5 Bbls in 1 hour, est. gas 750 MCF/D. 24 hour rate 396 BOPD. 10 to 15% water estimated. Ran sinker bar, found PBTD @ 5960' KB, just below bottom zone. Trip in w/bridge plug and set as follows: 5587 - 89, 2 holes; 5598 - 5600, 2 holes; 5640 - 60, 11 holes; 5678 - 94, 9 holes. Trip in w/straddle packers. Broke down perfs as follows:

MERRION OIL & GAS CORPORATION

CANYON LARGO UNIT 313

Sec. 28, T25N, R6W

Rio Arriba County, New Mexico

- 4/22/82 Move in, rig up Young Rig 3. Spud @ 6:15 PM. Drilled to 237' KB.
Set 203' of 8-5/8" Casing @ 217' KB w/170 sx. cement.
- 4/23/82 2560' drilling. Mud wt. 9, Vis. 37, Water Loss 6.
- 4/24/82 Drilling @ 3420. Mud wt. 9.1, Vis. 34, Water Loss 6.
- 4/25/82 Drilling @ 4110. Mud wt. 8.9, Vis. 35, Water Loss 7.
- 4/26/82 Drilling @ 4800. Mud Wt. 9, Vis. 36, Water Loss 6.
- 4/27/82 Drilling @ 5426. Mud wt. 9, Vis. 39, Water Loss 6.
- 4/28/82 TD @ 5970' KB @ 7:30 AM. Mud wt. 9.1, Vis. 75, Water Loss 7.5.
- 4/29/82 TD @ 5990' KB. Condition hole, trip out for logs. Rig up Dresser
Atlas and ran IES Induction, Compensated Neutron Density Logs. Trip
in w/drill pipe to drill 30' of additional hole.
- 4/30/82 Trip in to lay down, drilled 30' additional hole to 6020' KB. Lay down
drill pipe. Rig up and ran 4-1/2" casing as follows:
Ran total 143 joints 4-1/2" - total length 6,018.77'.
Stage tool @ 4753.51'
Float collar @ 5975.04'
Guide Shoe @ 6019.00'
Petal Baskets @ 1854', 3792', 4753.51'.
Rig up Dowell and cemented 1st Stage w/225 sx Class H w/2% gel.
Good circulation. Unable to bump plug. Pumped 5 Bbls over displacement.
Plug down @ 9:00 PM. Float held okay. Opened stage tool and circulated
3 hours. Cemented 2nd Stage w/700 sx Class B 2% D-79 Good circulation.
Returned 5 Bbls cement back to surface. Plug down @ 1:15 AM. Nipple
down BOP's, landed casing and cut off. Released rig from CLU 313.
- 5/6/82 Start on hookup.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

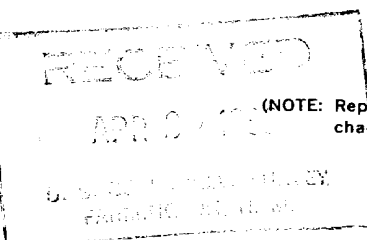
1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
Merrion Oil & Gas Corporation
3. ADDRESS OF OPERATOR
P. O. Box 1017, Farmington, New Mexico
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 790' FNL & 790' FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Spud ☒

SUBSEQUENT REPORT OF:

- ☐
☐
☐
☐
☐
☐
☐
☐
☐
☒



(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spud @ 6:15 PM 4/21/82. Set 203' of 8-5/8" surface casing @ 217' KB w/170 sx. cement.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED [Signature] TITLE Operations Manager DATE 4/22/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

*See Instructions on Reverse Side

NMOCO

APR 23 1982

FARMINGTON DISTRICT

BY S44

Canyon Largo Unit 313
Sec 28, T25N, R6W
Rio Arriba County, New Mexico

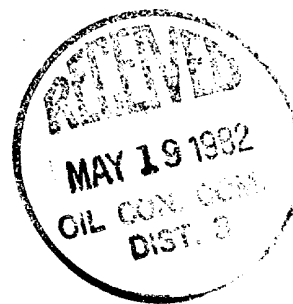
SLOPE TESTS

Depth

Hole Deviation

227'
1717'
2798'
4878'

1/4°
1/2°
1 °
2 °



State of New Mexico)
) ss
County of San Juan)

I, J. Gregory Merriion, being first duly sworn, depose and state that the above and foregoing depth and hole deviation figures are true and correct to the best of my information and belief.

J. Gregory Merriion

Subscribed and sworn before me this 18th day of May, 1982.

Rolando Strange
Notary Public

My Commission Expires 10/28/85

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐

2. NAME OF OPERATOR
Merrion Oil & Gas Corporation

3. ADDRESS OF OPERATOR
P. O. Box 1017, Farmington, New Mexico

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

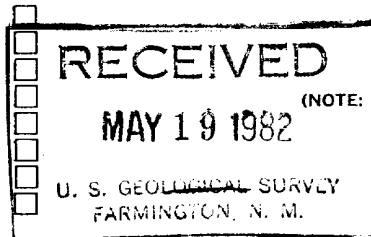
AT SURFACE: 790 FNL and 790 FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

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

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Completion ☒

SUBSEQUENT REPORT OF:



5. LEASE
SF 079071

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Canyon Largo Unit

9. WELL NO.
313

10. FIELD OR WILDCAT NAME
Devils Fork Gallup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 28, T25N, R6W

12. COUNTY OR PARISH
Rio Arriba Co.

13. STATE
New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6320' GL

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We will be completing additional zones in the same formation.



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Bryan Merrion TITLE President DATE 5/18/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

*See Instructions on Reverse Side

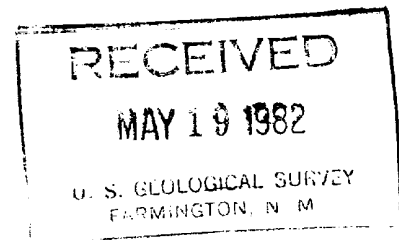
MAY 21 1982

NMOCC

FARMINGTON DISTRICT
BY Smh

MERRION OIL & GAS CORPORATION

CANYON LARGO UNIT 313
Sec. 28, T25N, R6W
Rio Arriba County, New Mexico



- 4/22/82 Move in, rig up Young Rig 3. Spud @ 6:15 PM. Drilled to 237' KB. Set 203' of 8-5/8" Casing @ 217' KB w/170 sx. cement.
- 4/23/82 2560' drilling. Mud wt. 9, Vis. 37, Water Loss 6.
- 4/24/82 Drilling @ 3420. Mud wt. 9.1, Vis. 34, Water Loss 6.
- 4/25/82 Drilling @ 4110. Mud wt. 8.9, Vis. 35, Water Loss 7.
- 4/26/82 Drilling @ 4800. Mud Wt. 9, Vis. 36, Water Loss 6.
- 4/27/82 Drilling @ 5426. Mud wt. 9, Vis. 39, Water Loss 6.
- 4/28/82 TD @ 5970' KB @ 7:30 AM. Mud wt. 9.1, Vis. 75, Water Loss 7.5.
- 4/29/82 TD @ 5990' KB. Condition hole, trip out for logs. Rig up Dresser Atlas and ran IES Induction, Compensated Neutron Density Logs. Trip in w/drill pipe to drill 30' of additional hole.
- 4/30/82 Trip in to lay down, drilled 30' additional hole to 6020' KB. Lay down drill pipe. Rig up and ran 4-1/2" casing as follows:

Ran total 143 joints 4-1/2" - total length 6,018.77'.

Stage tool @ 4753.51'

Float collar @ 5975.04'

Guide Shoe @ 6019.00'

Petal Baskets @ 1854', 3792', 4753.51'.

Rig up Dowell and cemented 1st Stage w/225 sx Class H w/2% gel. Good circulation. Unable to bump plug. Pumped 5 Bbls over displacement. Plug down @ 9:00 PM. Float held okay. Opened stage tool and circulated 3 hours. Cemented 2nd Stage w/700 sx Class H 2% gel. Good circulation. Returned 5 Bbls cement back to surface. Plug down @ 1:15 AM. Nipple down BOP's, landed casing and cut off. Released rig from CLU 313.

5/6/82 Start on hookup.



MERRION OIL & GAS CORPORATION

CANYON LARGO UNIT 313

Sec. 28, T25N, R6W

Rio Arriba County, New Mexico

- 5/10/82 Move in, rig up Bayless Rig 3 and pick up tubing off catwalk to drill out stage tool @ 4753' KB w/casing scraper and 3-7/8 Smith bit. Drilled out stage tool and pressure test. Pumped into something @ 1400 PSI. 1 BPM. ISIP 900 PSI. Drilled out float @ 5975' KB and tried to drill out the bottom of the shoe. Bit quit drilling. Pull 10 stands and prepare to trip bit. SDON.
- 5/11/82 Round trip for bit. Drill out float and shoe, found bottom of casing @ 6017' KB. Trip out. Rig up Bluejet, ran Gamma Ray Correlation Log from 6000' to 3700' w/cement bond - VDL. Found bottom of 1st Stage cement @ 5944' KB. Perforated 2 squeeze holes @ 5950' KB w/3-1/8" casing gun. Ran Baker retainer on 2-3/8" tubing and set @ 6003' KB. Rig up Dowell, pressure tested tubing to 4000 PSIG, OK. Established circulation under retainer. Mixed 35 sx Class H 1% CACL₂ @ 15.6 #/gal, yield 1.18 ft³/sx. Displaced w/23 Bbls water. Pulled out of retainer up hole 17 stands. Reversed tubing clean and squeezed on perforations. Held 2000 PSI for 10 minutes. Left shut-in est. 200 ft. of cement in casing. WOCT.
- 5/12/82 Waiting on cement. Set production unit and work on tank battery.
- 5/13/82 Trip in hole w/3-7/8 bit and casing scraper to drill out squeeze cement. Tag cement @ 5550' KB. Drill out cement to 6000' KB @ retainer. Pull 310' off bottom and SDON.
- 5/14/82 Rig up Western. Rolled hole w/10 Bbls gel plug and loaded w/frac fluid. Spotted 250 gal. 15% HCL. Trip out. Rig up Blue Jet. Perforated 1st Stage, 5878 - 86, 5 holes, 5906 - 16, 6 holes, 5925 - 27, 2 holes, 5940 - 60, 11 holes, total 24 holes. Run straddle packers and broke down perfs. 5940 - 60 communicated w/ISDP 500 PSI. 5925 - 27, ISDP 700 PSIG, 5906 - 16, ISDP 900 PSIG. 5878 - 86, ISDP 1400 PSIG. SDON.
- 5/16/82 Unloaded hole w N₂. Trip out w/tubing. Fraced 1st Stage w/75 Quality foam, 2% KCL, 1 gal/1000 Aquaflow, as follows:
- | | |
|-------------|-------------------------|
| 12,000 Gal. | Pad |
| 6,000 Gal. | 1/2 #/gal. 20/40 sand |
| 6,000 Gal. | 1 #/gal. 20/40 sand |
| 12,000 Gal. | 1-1/2 #/gal. 20/40 sand |
| 12,720 Gal. | 2 #/gal. 20/40 sand |
- Screened out frac w/52,388 lbs in. 43,388 lbs in formation.
Rate 30 BPM
Pressure 3500 PSIG.
ISDP 2900 PSIG to 2800 PSIG in 15 minutes.
Shut in 2 hours. Flow back on 1/2" choke and put into frac tank.
- 5/17/82 Flowing 1st Stage to frac tank.