Case No
6139

Large Exhibits

R 3 W

T 19 N

MYLES MCDONOUGH | MARSHALL & WINSTON | M. J. HARVEY | RIJAN | HOLLY ENERGY | HOLLY ENERGY | HOLLY ENERGY | DOME PETRO., ET AL

KIRBY

8 | 9 | 10 | 11 | 12

DUNCAN MILLER

SUN | YATES PETRO | MARSHALL & WINSTON | DOME PETR., ET AL

BRADSHAW

17 | 16 | 15 | 14 | 13

KIRBY

PROPOSED LOCATION
BOLING FEDERAL
NO. 8-22

ABO PETRO | P.I.C., ET AL

DOME PETRO. | DUGAN

20 | 21 | 22 | 23 | 24

DOME ET AL | RIJAN OIL

RIJAN | RIJAN | RIJAN | BUFFALO OIL

RIJAN

29 | 28 | RIJAN | RIJAN | 27 | 26 | 25

RIJAN | RIJAN

32 | 33 | 34 | 35 | 36

#5 pmt 90-95% wtr
on four pmt
all sand
pmt 15 yrs tbd
pmt only 1000 bbls oil
pmt @ wtr shut off
pmt communicated
well has never pmtd
only 1300 bbls

proposed well #8-22
990' FNL
2160' FWL

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1
CASE NO. 6139

LEGEND

- DRY & ABANDONED
- PLUGGED & ABANDONED PRODUCER
- ACTIVE PRODUCER
- ACTIVE INJECTOR
- TEMPORARILY ABANDONED
- DENOTES ENTRADA
- PETRO LEWIS - FLUID POWER PUMP
- NW/4 SEC 22 - PETRO LEWIS - FLUID POWER PUMP - LEWMONT DRILLING CO.

ALL OTHER LEASES AS INDICATED

PETRO LEWIS

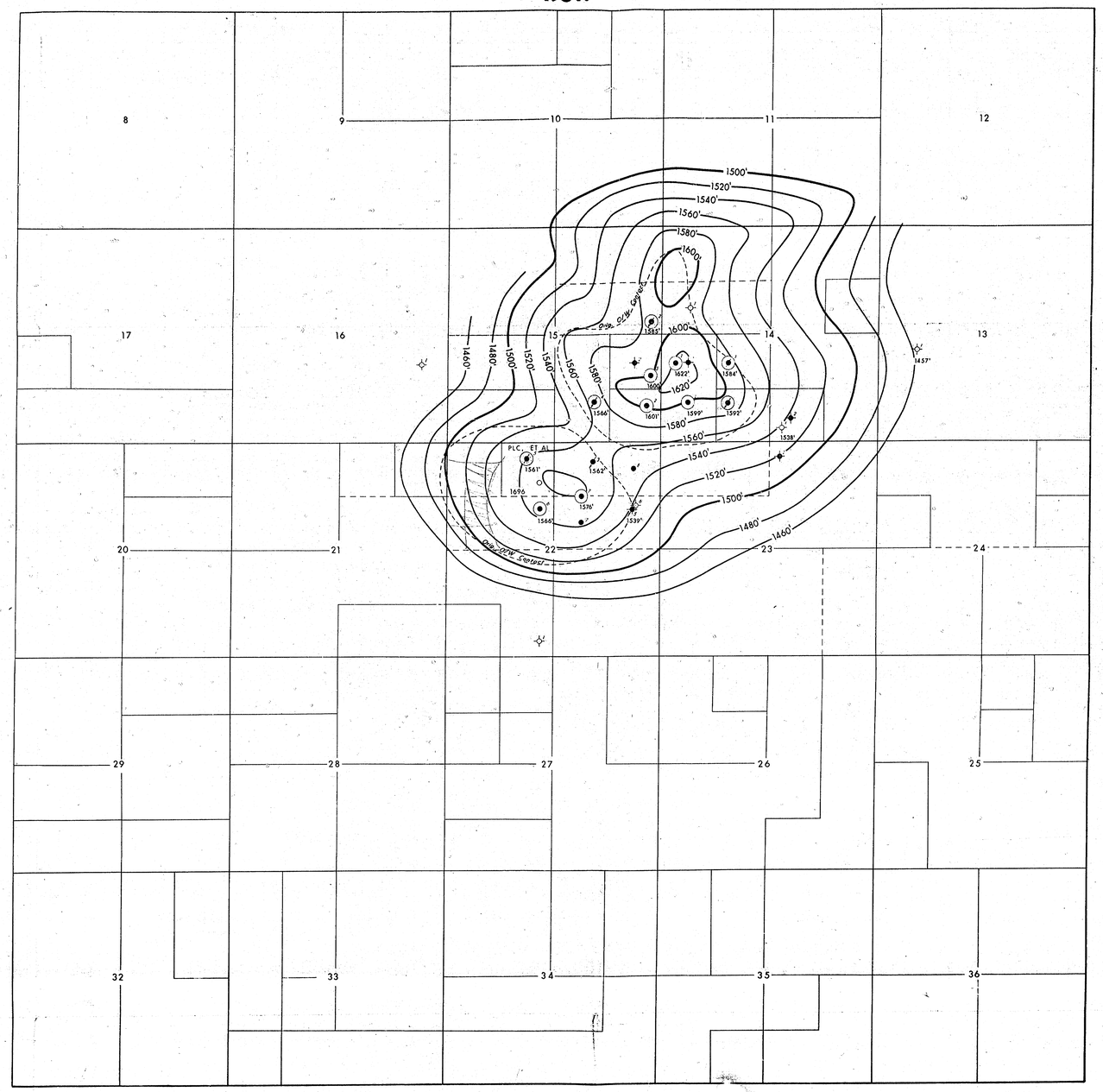
DATE: SEPT. 1978
DRAWN BY: W. L. M.
PROJECT AREA:
C.I.: VARIOUS
SCALE: 1" = 1000'
REVISED DATE:
FILE NUMBER:

MEDIA DOME AREA

SANDOVAL CO, NEW MEXICO

U.S.B.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

R3W



T 17 N

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 3
CASE NO. 6134

LEGEND

- DRY & ABANDONED
- PLUGGED & ABANDONED PRODUCER
- ACTIVE PRODUCER
- ACTIVE INJECTOR
- TEMPORARILY ABANDONED
- DENOTES ENTRADA

PETRO LEWIS

DATE	JAN 1972
DRAWN BY	
PROJECT AREA	
C.I.	
SCALE	1" = 2000'
REVISED DATE	
FILE NUMBER	

MEDIA DOME AREA

SANDOVAL CO., NEW MEXICO

STRUCTURE MAP

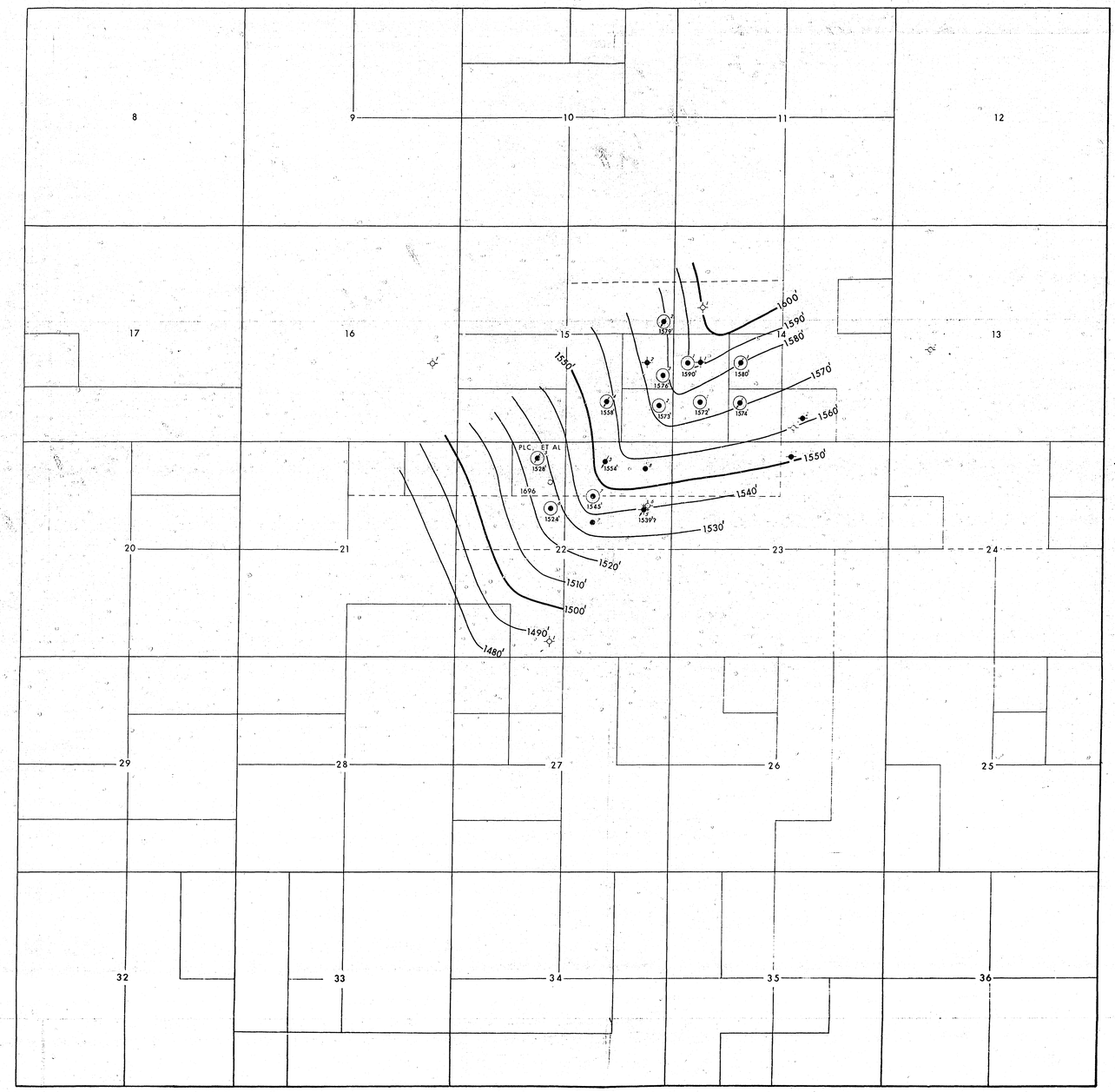
Datum: Top of Entrada Sandstone
Contour Interval: 20'

By Compiler

U.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

R3W

T19N



BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Atlas Exhibit No. 3
CASE NO. 1139

LEGEND

- DRY & ABANDONED
- PLUGGED & ABANDONED PRODUCER
- ACTIVE PRODUCER
- ACTIVE INJECTOR
- TEMPORARILY ABANDONED
- DENOTES ENTRADA

PETRO LEUM

MEDIA DOME AREA

SANDOVAL CO, NEW MEXICO

STRUCTURE MAP

Datum: Oil/Water Contact
Contour Interval: 10'

DATE JAN 1979
ENGINEER RF
S. L. D.
PROJECT NO.
D.C. NUMBER
SCALE 1" = 1000
REVISED DATE
FILE NUMBER
BY: CAMPBELL

W.R.H.C.P. MICROGRAPHICS
BEST AVAILABLE COPY

R3W

T19N

8 9 10 11 12

17 16 15 14 13

20 21 22 23 24

29 28 27 26 25

32 33 34 35 36

PLC, ET AL

1696

40 30 20 10 0

40 30 20 10 0

LEGEND

- DRY & ABANDONED
- PLUGGED & ABANDONED PRODUCER
- ACTIVE PRODUCER
- ACTIVE INJECTOR
- TEMPORARILY ABANDONED
- DENOTES ENTRADA

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 9
CASE NO. 6139

PETRO LEWIS

DATE: JAN. 1972
APPROVED BY: A.L.W.
PROJECT AREA
C.I. INTERVAL
SCALE: 1" = 1000'
REVISED DATE
FILE NUMBER
BY: CAMPBELL

MEDIA DOME AREA

SANDOVAL CO., NEW MEXICO

ISOPACH MAP

Datum: Gross Oil Interval
Contour Interval: 10'

V.R.R.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330
(Rev. 5-63)

UNITED STATES — SUBMIT IN DUPLICATE*
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:	5. LEASE DESIGNATION AND SERIAL NO. NM 1696
1b. TYPE OF COMPLETION: NEW WELL ☑ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: Field Power Pump Company	7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR: 500 Bank of New Mexico Building - Albuquerque, New Mexico 87103	8. FARM OR LEASE NAME Field Power
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1650' FNL, 1650' FWL	9. WELL NO. 5
At top prod. interval reported below 1650' FNL, 1650' FWL	10. FIELD AND POOL, OR WILDCAT Wildcat Entrada
At total depth 1650' FNL, 1650' FWL	11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 22-T25N-R3W, NMPM

12. PERMIT NO.	DATE ISSUED	13. DATE SPUDDED	14. DATE T.D. REACHED	15. DATE COMPL. (Ready to prod.)	16. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	17. ELEV. CASINGHEAD
6405	6-20-72	6-26-72	6-30-72	6-30-72	6096' GR, 6099' KB	6077'

18. TOTAL DEPTH, MD & TVD	19. PLUG, BACK T.D., MD & TVD	20. IF MULTIPLE COMPL., HOW MANY*	21. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5,531'	5316' - 5376'		→	0-5530'	None

22. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* — 23. WAS DIRECTIONAL SURVEY MADE
Entrada 5346' - 5376' — No
24. TYPE ELECTRIC AND OTHER LOGS RUN — 25. WAS WELL CORED
Induction Electric and Density Logs — Yes

26. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/4"	33.73#	241'	15-7/8"	180 sx Cl A w/2% ca. chl	None
7"	24 & 20#	3470'	8-3/4"	150 sx 50/50 Pozmix 2nd	
				333 sx Cl C w/6% gel	

27. LINER RECORD					28. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2"	5200'	

29. PERFORATION RECORD (Interval, size and number)
5316' - 5376' w/2 per ft

30. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5316' - 5376'	2000 gal 15% HCl

31. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
6-30-72	Pumping	Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-15-72	24			180	1574	1440	7874

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
0#	30#		180	1574	1440	42.2°

32. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Flared

33. LIST OF ATTACHMENTS
Logs previously furnished

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED _____ TITLE Consultant DATE 6-30-72

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
CASE NO. 5146/5147 EXHIBIT NO. 5

*(See Instructions and Spaces for Additional Data on Reverse Side)

U.S.G.S. MICROGRAPHICS

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to the Federal and/or State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with respect to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See also items 22 and 24 below regarding separate reports for separate completions.

If not filed prior to the time this summary report is submitted, copies of all currently available logs (drillers, geologist, sample and core analysis, all types of electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 12: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

Item 35: Submit a separate completion report on this form for each interval to be separately produced.

Do drillstem tests. Cored 5313' - 5355', recovered 43' - 9' oil saturated sandstone, 1' very fine white sandstone, 9' fine white oil saturated sandstone, 1' fine white sandstone, 15' fine white oil saturated sandstone, 7' very fine white sandstone.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)				38. GEOLOGIC MARKERS		
					TOP	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Lewis Shale	0'	460'	Sandy gray shale	Point Lookout	2316'	2316'
Mesaverde	460'	1950'	Gray sandstone with some shales and coals	Gallup	3251'	3251'
Menefee	1950'	2310'	Gray shales, coals, and sandstone	Dakota "A"	4353'	4353'
Point Lookout	2310'	2720'	Porous gray sandstone	Toddito	5292'	5292'
Mancos	2720'	3234'	Sandy gray shale	Intrusive	5342'	5342'
Gallup	3234'	3550'	Tight gray sandstone and shales			
Lower Mancos	3550'	3970'	Dark gray shale with some sand			
Greenhorn	3970'	4134'	Limestones, some black shales and sand			
Graneros Dakota	4134'	4320'	Tight gray sandstone			
Dakota "A"	4320'	4444'	Porous gray sandstone			
Dakota "B"	4444'	4554'	Porous gray sandstone			
Morrison	4554'	5292'	Variegated red to green shales, some sandstone			
Toddito	5292'	5342'	Anhydrite and ten limestones			
Intrusive	5342'	5450' TD	Porous gray sandstone, oil saturated			

U.S.B.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

BOLING FEDERAL #5
SUMMARY OF
WELL HISTORY

1. 6/15/72 - Completed as Entrada producer. I.P. 480 BOPD + 1440 BWPD from perfs 5346-5376 (30').

2. 6/15/72 to 11/30/73 - Produced 1638 BO. Test 8/73 6 days 12 BOPD + 1001 BWPD.

3. 11/30/73 to 12/18/73 - Attempted Water Shut off workover.

   a.) 143 Bbls HOWCO Injectrol "G" } into perfs 5360-5376 (16')
   b.) 75 sx CL "A" cement }
   c.) Reperfed 5346-5356 (10')
   d.) Pumped 100 Bbl salt wtr. into perfs 5346-5356'.

4. 12/18/73 to 5/75 - Produced from perfs 5346-56. On 5/17/75 squeezed perfs 5346-5356 with 65 Bbl lease oil in 2½ hours at 2500 psi. Returned to production. Test 7/74 15 days 29 BOPD + 381 BWPD.

5. 5/75 to 10/75 - Produced from perfs 5346-56. Last continuous test 24 days in August, 1975 well produced average 9 BOPD, 171 BWPD. S.I. Oct. 1975. Total est. cum. = 13,026 BO.

PLANNED

1. To plug out of Entrada as per the attached form 9-331C dated January 23, 1978.

U.S.G.S. MICROGRAPHICS

Form 9-331 C
(May 1963)

SUBMIT "INTENTIONS" IN TRIPLICATE
(Other instructions on reverse side)

Form Approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: 105-3696

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL ☐ DEEPEN ☐ PLUG BACK ☒

b. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER — SINGLE ZONE ☒ MULTIPLE ZONE ☐

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Petro-Lewis Corporation

8. FARM OR LEASE NAME: Fluid Power Pump Co.

3. ADDRESS OF OPERATOR: P.O. Box 509, Levelland, Texas 79336

9. WELL NO.: #5-22

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 400' FNL & 1980' FWL
At proposed prod. zone: 5346'-76'

10. FIELD AND POOL, OR WILDCAT: Entrada

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 22-T19S-R3W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 13 miles SW of Cuba, N.M.

12. COUNTY OR PARISH: Sandoval

13. STATE: N.M.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 400'

16. NO. OF ACRES IN LEASE:

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 6450'

20. ROTARY OR CABLE TOOLS:

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6896' GR, 6910' KB, 6897 cng. head

22. APPROX. DATE WORK WILL START*: 2-25-78

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4"	10-3/4"	32.74#	245'	150 sx. Cl "B" w/3% cc, to surf
8-3/4"	7"	20# & 23#	5636'	350 sx. 50/50 Pozmix and 100 sx. Cl "C" w/8% gel

1-23-78 - On 10-23-77, Petro-Lewis Corp. received approval from Jerry Long, USGS, Durango, Colo., to plug and abandon the above Entrada Producer, and to plug and abandon the Federal Nadia #3 Gallup, Salt Water Disposal. Due to the necessity to provide adequate water disposal for the Southwest Nadia Unit; Petro-Lewis Corp. proposes to plug back the above exhausted, watered out, Entrada Producer and submit a request to recomplete the Gallup as a replacement salt water disposal well.

Plug Back Procedure:

1st Plug - Set 7" B-2 drill retainer @ 5300' and squeeze perfs 5346'-76', spot 100' cmt. on top of retainer. Cmt. w/100 sxs. Class "C" Neat.

2nd Plug - Pump plug from 4300' to 3800'-500', with 100 sx. Class "C" Neat cmt.

This Plug Back Application will be followed by a request to recomplete as a Gallup Salt Water Disposal.

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: [signature] TITLE: Sr. Drilling Foreman DATE: 1/23/78

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

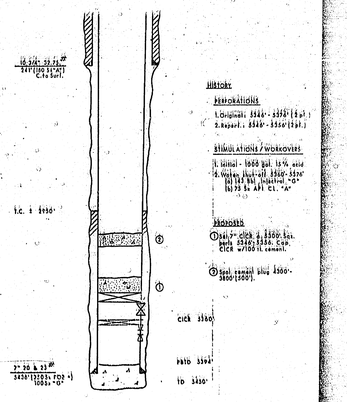
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

U.T.A.G.P. MICROGRAPHICS

BOLING FEDERAL #5
SCHEMATIC DIAGRAM



History

PERFORATIONS

1. Original: 3366' - 3372' (6 spf)
2. Repair: 3349' - 3356' (3 spf)

STIMULATIONS / WORKOVERS

1. Initial - 1000 gal. 15% acid
2. Water shut-off: 3349'-3356'
   (a) 183 BW, Industrial "G"
   (b) 35 sx API Cl. "A"

REMARKS

① Sqz 7" CICR @ 3360. Sqz. perfs 3366'-3372'. Cap CICR w/100' cl. cement.

② Spot remedial plug 3000'-2800' (200').

U.W.R.C.P. MICROGRAPHICS
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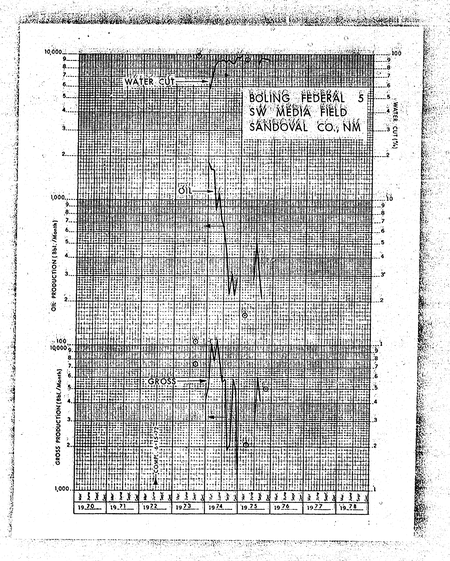

V.N.U.C.F. MICROGRAPHICS

V.E.R.G.P. PHOTOGRAPHICS
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V.R.H.C.P. MICROGRAPHICS