Called in by Bill Carr
3/5/85

March 27, 1985

Memo

From
FLORENE DAVIDSON
Staff Specialist

To

Myco Industries
Salt Water Disposal
Eddy County
Shell Oil Company Bjj
Eddy Unit # 1
660/N + 1980/W
36-21S-28E
Devonian formation
13,820' to 14,051'
14,059' to 14,200'

Oil Conservation Santa Fe, New Mexico

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

Case 8545

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no

II. Operator: MYCO Industries Inc.

Address: 207 S. 4th Artesia, N.M. 88210

Contact party: Frank Yates Jr., P.E. Phone: (505)748-1331 Ext. 200

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Frank Yates Jr. Title Professional Engineer

Signature: Frank Yates Jr. P.E. Date: 3-6-85

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. N/A

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

(3) the formation name and depth with expected maximum injection rates and pressures; and

(4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Proposal:

I. It is proposed that the Big Eddy Unit #1 be re-entered for the purpose of making a disposal well. Existing cement plugs would be drilled out and the well deepened from 14,059 to 14,200$\pm$. The plan is to run new casing and inject into the Devonian from 13,820 to 13,836 and 14,002 to 14,051. It is also proposed that zones between 14,059 and 14,200$\pm$ be used for disposal into the Devonian.

II. The operator will be;

MYCO Industries, Inc.
207 S. 4th St.
Artesia, N.M. 88210

III B.

1.) The Shell Big Eddy #1 was drilled in the Big Eddy Unit as a wildcat well to 14,059 in the Devonian formation. The well was spudded on 9-25-57 and plugged and abandoned 9-24-58.

2.) The injection interval will be in the Devonian from 13,820' to 14,051' and between 14,059 and 14,200±. The entire interval will be perforated through 4", 13# S-95, LT & C casing set to the proposed TD. There will be no open hole injection. See Fig. III A 2.

3.) The well was originally drilled as a wildcat to search for oil and gas. Eleven DST's were performed in several formations in this well. They are described in the accompanying well report from the N.M. Oil Conservation Commission.

4.) The existing perforations were in 5 1/2" casing between 11,456 ft. and 11,549 ft. They were plugged with 50 sacks of cement spotted between 11,200 ft., and 11,650 ft. MYCO's intent is to drill out the plug, re-acidize and squeeze the perforations with 100 sacks of Class 'C' cement. (See Well Data Sheet and Figures.)

5.) The following sheet shows formation tops and lithology of higher oil and gas zones. The two offsetting gas wells 1/2 mile from the proposed injection well are producing from the Morrow Sands which apparently occur in the Big Eddy #1 between 12,200 ft. and 12,850 ft. An impermeable layer of shale from 13,640 ft. to 13,800 ft. protects the gas zones. (See the following formation record and the PI cards in section VI.)

IV. This is not an expansion of an existing project.

V. See accompanying map.

VI. The are no wells within the area of review which penetrate the Devonian (the proposed injection zone). There are two wells within the area of review: Big Eddy 93 which has a TD of 12,750 and Big Eddy 66 which has a TD of 12,700. Each well is producing from the Morrow formation between 12,270 & 12,440. (See the following PI cards.)

VII.

1.) The proposed average daily injection rate is 3000 bls./day. The maximum rate requested is 10,000 bls/day. The estimated total volume of fluid to be injected during the life of the project will be about 2.0×10^8 barrels.

INJECTION WELL DATA SHEET

Case 8548

OPERATOR	LEASE			
MYCO Industries, Inc.	Big Eddy Unit			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
1	660 FNL & 1980 FWL	36	21S	28E

Schematic

See Figure IIIA1

Existing Tabular Data

Surface Casing

Size 20" " Cemented with 325 sx.

TOC Surf feet determined by visual

Hole size 24"

Intermediate Casing (2 strings)

Size 13 3/8-9 5/8 " Cemented with 1045/500 sx.

TOC surf/5840 feet determined by visual/bond log

Hole size 17 1/2" / 12 1/4"

Long string

Size 5 1/2 " Cemented with 250 sx.

TOC approx. 10,675 feet determined by bond log

Hole size 7 7/8"

Total depth 14059

Injection interval

N/A feet to N/A feet
(perforated or open-hole, indicate which)

Tubing size N/A lined with N/A (material) set in a

N/A (brand and model) packer at N/A feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation N/A

2. Name of Field or Pool (if applicable) N/A

3. Is this a new well drilled for injection? [ ] Yes [X] No

   If no, for what purpose was the well originally drilled? oil or gas

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) 11,456' - 11,474', 11,541' - 11,549' plugged w/ 50 sx cmt. 11,200 to 11,650

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Mississippian black shale 13,645 to 13,800

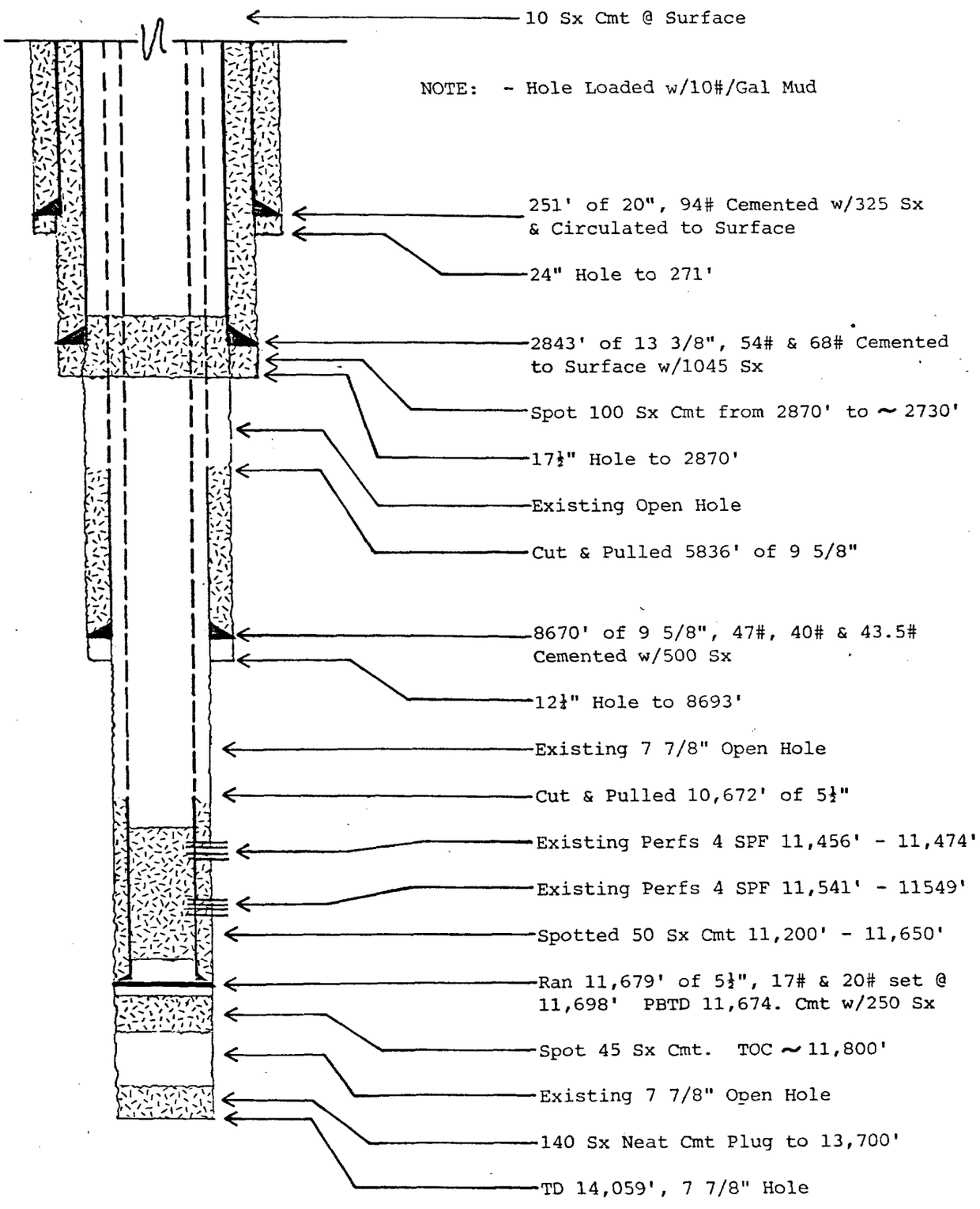
   Atoka 11,372 to 13,644

MYCO INDUSTRIES INC.

BIG EDDY UNIT #1
UNIT C SEC.36 T21S-R28E

PRESENT WELL CONDITION

FIG. IIIA 1



INJECTION WELL DATA SHEET

Case 8545

OPERATOR	LEASE			
MYCO Industries, Inc.	Big Eddy Unit			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
1	660 FNL & 1980 FEL	36	T 21 S	R 28 E

Schematic

See Figure IIIA2

Proposed Tabular Data

Surface Casing

Size 20" " Cemented with 325 sx.

TOC surf feet determined by visual

Hole size 24"

Intermediate Casing

Size 13 3/8, 9 5/8" Cemented with 1045/500 sx.

TOC surf/5840' feet determined by visual/bond log

Hole size 17 1/2, 12 1/4

Long string

Size 5 1/2, 4" " Cemented with 2500/1000 sx.

TOC 2800' feet determined by bond log

Hole size 7 7/8" / 4 1/2"

Total depth 14,200±

Injection interval

13,820 feet to 14,051 feet

(perforated or open-hole, indicate which)

*Also in proposed new cased hole between 14,059 and proposed TD in the Devonian of 14,200±.

Tubing size 2 7/8" lined with plastic (material) set in a Guiberson UNI VI (nickle coated) (brand and model) packer at 13,800 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Devionian

2. Name of Field or Pool (if applicable) N/A

3. Is this a new well drilled for injection? ☐ Yes ☒ No

If no, for what purpose was the well originally drilled? oil or gas

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)

perfs 11,456 - 11,474 & 11,541 - 11,549

plugged w/ 50 sacks cmt 11,200 - 11,650

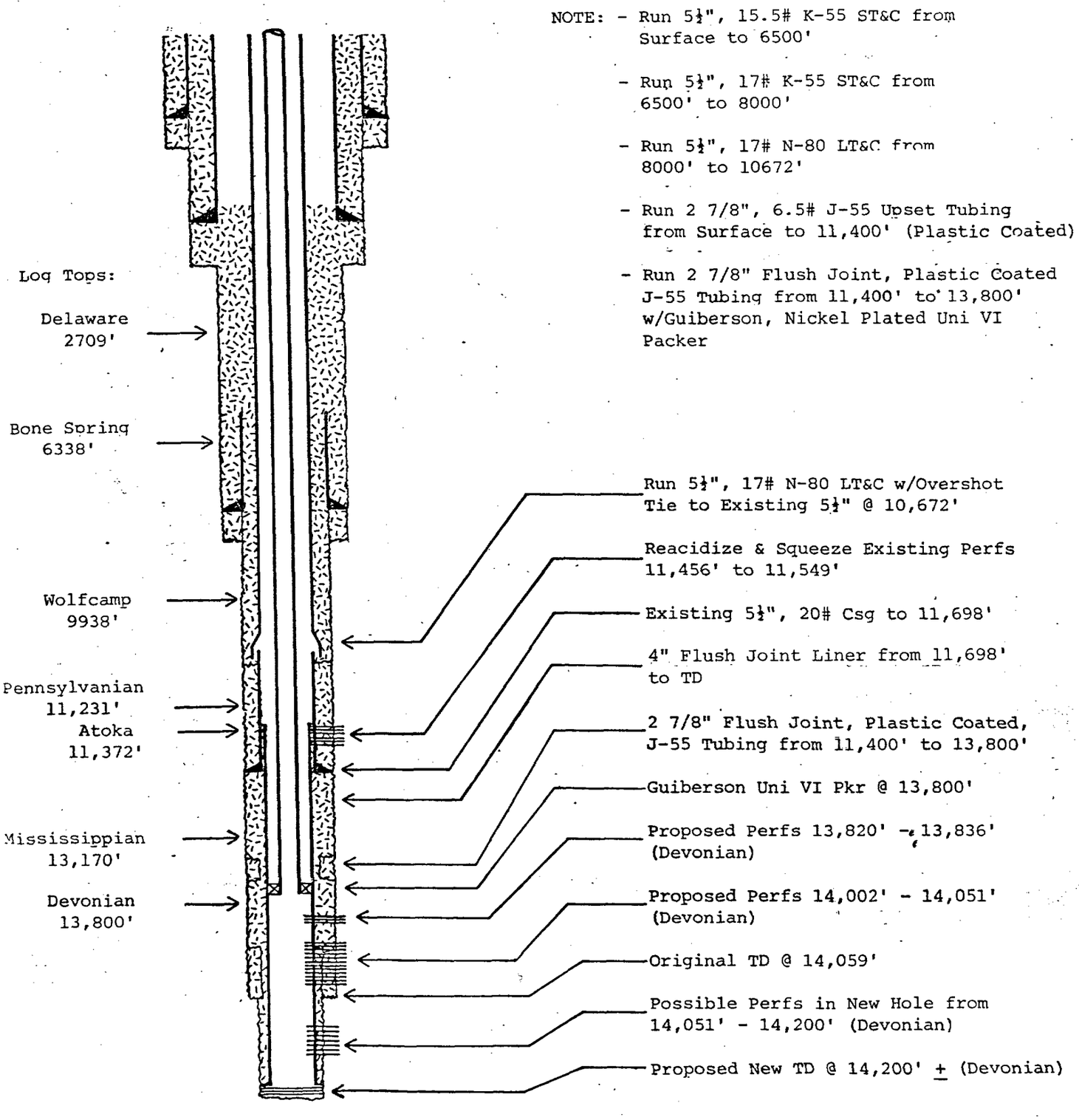
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Mississippian black shale 13,645 to 13,800

Atoka 11,372 to 13,644

See III B5 for formation record.

MYCO INDUSTRIES INC.

BIG EDDY UNIT #1
UNIT C SEC. 36 T21S-R28E
PROPOSED WELL CONDITION
FIG. IIIA 2



III B 5)

7

RECORD OF DRILL-STEM AND SPECIAL TES

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from 0 feet to 14,059 feet, and from ..... feet to ..... feet.

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet.

PRODUCTION

~~PRODUCING~~ P&A September 24, 19 58

OIL WELL: The production during the first 24 hours was ..... barrels of liquid of which ..... % was was oil; ..... % was emulsion; ..... % water; and ..... % was sediment. A.P.I. Gravity .....

GAS WELL: The production during the first 24 hours was ..... M.C.F. plus ..... barrels of liquid Hydrocarbon. Shut in Pressure ..... lbs.

Length of Time Shut in .....

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy		T. Devonian	T. Ojo Alamo
T. Salt		T. Silurian	T. Kirtland-Fruitland
B. Salt		T. Montoya	T. Farmington
T. Yates		T. Simpson	T. Pictured Cliffs
T. 7 Rivers		T. McKee	T. Menefee
T. Queen		T. Ellenburger	T. Point Lookout
T. Grayburg		T. Gr. Wash	T. Mancos
T. San Andres		T. Granite	T. Dakota
T. Glorieta		T. Bone Spring 6338' (-3119')	T. Morrison
T. Drinkard		T. Wolfcamp 9933' (-6714')	T. Penn
T. Tubbs		T. Atoka 11,372' (-8153')	T.
T. Abo		T. Miss. Black Shale 13,645'	T.
T. Penn 11,231' (-8012')		T. (-10,426')	T.
T. Miss 13,170' (-9951')		T.	T.

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	300	300	Silt, Sand, Shale, Dolomite				
300	520	220	Gypsum				
520	1320	800	Salt				
1320	2720	1400	Anhydrite				
2720	2870	150	Limestone				
2870	6340	3470	Sand w/streaks of lime & Shale				
6340	7430	1090	Lime & Shale				
7430	7670	320	Sand & Shale				
7670	9500	1830	Limestone w/streaks of Shale Silt & Sand				
9500	9810	310	Sand & Shale				
9810	10330	520	Limestone & Shale				
10330	10850	520	Shale				
10850	11500	650	Limestone				
11500	11600	100	Sand & Shale				
11600	12200	600	Limestone & Shale				
12200	12850	650	Sand & Shale				
12850	13170	320	Shale				
13170	13640	470	Limestone & Chert				
13640	13800	160	Shale				
13800	14059	259	Dolomite				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

September 26, 1958
(Date)

Company or Operator Shell Oil Company Address Box 845, Roswell, New Mexico

Name Rex C. Cabaniss Original Signed By Rex C. Cabaniss Position or Title District Exploitation Engineer

EDDY COUNTY — NEW MEXICO — INDIAN FLATS

Well: PERRY R. BASS, 93 Big Eddy Unit — Result: GAS DG

Loc'n 11 mi E/Carlsbad; 1980' FSL, 1980' FWL Sec 36-21S-28E

Spud: 3-7-82; Comp: 6-16-82; Elev: 3196'Grd; TD: 12,750'Brnt

Casing: 8-5/8" 3450'/1750 sx; 5½"12,750'/600 sx; 2-3/8" 12,250'

Prod Zone: (Mor), T/Pay 12,343', Prod thru Perfs 12,343-439'

IPCAOF: 2945 MCFGPD, SIWHP 4000#, SIBHP 4013#

Comp Info: ranDILL, MICL, SONL, FOCL, CNL, FDC logs; DST (Wolfc) 10,385-496', op 3 hrs 11 mins, GTS 25 mins into ISI, rec 1400' FO (grav 50), 4565' wtr (sampler rec 7 CFG + 100 cc oil, 900 cc wtr), ISIP 5270#/4 hrs, FP 140-2434#, FSIP 5346#/7 hrs 30 mins; DST-SP (Wolfc) 10,238-475', op 3 hrs 6 mins, GTS 9 mins into ISI, rec ¼ BC, 4.75 bbls GCM (sampler rec 12' gas, 300 cc Cond +400 cc mud), ISIP 5640#/4 hrs, FP 138-302#, FSIP 5895#/ 7 hrs 30 mins, BHT 148 deg; BP 12,710'; Perf (M/Mor) 7/12343-439' A/1500 gals; (Mor) 5 point test: F/407 MCFGPD/60 mins, TP 3735#, F/ 575 MCFGPD/60mins, TP 3625#, F/749 MCFGPD/60 mins, TP 3475#, F/ 912 MCFGPD/60 mins, TP 3375#, F/1277 MCFGPD/240mins, TP 3020#

Tops EL: Bone Sprg 6338', Wolfc 9711', Strawn 11,069', Atoka 11,273', Morrow 11,974'

API No: 30-015-24060

Date: 7-21-82 Card No.: 26 dh

Petroleum Information®
CORPORATION
A Subsidiary of A.C. Nielson Company

EDDY COUNTY NEW MEXICO INDIAN FLAT FIELD

Well: PERRY R. BASS 66 Big Eddy Unit Result: GAS DG
Loc'n: 10 mi E/Carlsbad; Sec 25-21S-28E; 1980' FSL 2130' FWL of Sec;

Spud: 10-19-78; Comp: 4-6-79; Elev: 3215' Grd; TD: 12,700' Barnett; PB: 12,300'
Casing: 11-3/4" 329'/490 sx; 8-5/8" 2777'/1150 sx; 5-1/2" 12,688'/1100 sx;
Prod. Zone: (Morrow) T/Pay 12,270', Prod thru Perfs 12,270-280'
IPCAOF: 939 MCFGPD, GOR Dry, Grav (gas) .620, SIWHP 3842#, SIBHP 5186#;
Comp Info: Cored (Dela) 2857-71', Rec 14' fine gr, sd w/scat bldg oil; Crd (Dela) 2871-98', Rec 27' sd w/sli scat bldg oil; Crd (Dela) 2898-2906', Rec 8' fine gr. sd, yellow flour, good odor; Crd (Dela) 2906-17', Rec 11' sd w/NS, no odor, no flour; DST (Dela) 2751-2917', op 4 hrs, Rec 20' oil + 583' SW, ISIP 1174#/1 hr, FP 38-291#, FSIP 1149#/3 hrs, HP 1225-1225#; DST (Dela) 2970-3000', op 4 hrs, Rec 1000' sul wtr, ISIP 1281#/1 hr, FP 32-465#, FSIP 1281#/3 hrs, HP 1325-1325#, BHT 69 deg; DST (Dela) 5870-5961', op 4 hrs, GTS/1 hr 50 mins @ TSTM, Rec 2718' SW + 135' oil, ISIP 2392#/1 hr, FP 203-1386#, FSIP 2617#/3 hrs; DST (Atoka) 11,474-553', op 1 hr 15 mins, Rec 430' MCO + 120' MCW, ISIP 6846#/75 mins, FP 2153-3436#, FSIP 6846#/2 hrs 30 mins, HP 6987-6987#, BHT 186 deg; Perf (Mor) 12,478-486' w/1 SPF; A/1000 gals; Perf (Mor) @ 12,455', 12,456', 12,457', 12,458', 12,459' w/1 SPF; A/1000 gals; Perf (Mor) 12,335-345' w/11 shots; A/2000 gals; Frac w/10,000 gals + 7750# sd; PB to 12,300', Perf (Mor) 12,270-280', F/85 BLW/5 hrs & died; (Mor) 4-PT; F/550 MCFPD, 1.25" orifice, 60 mins, TP 2543#; F/739 MCFPD, ch NR, 60 mins, TP 1857#; F/808 MCFPD, ch NR, 1 hr, TP 1582#; F/754 MCFGPD, ch NR, 1 hr, TP 1319#; Tops: Salt 450, B/Salt 2415', Dela 2794, Bone Spring 6362', Wolfc 9740', Strawn 11,015', Atoka 11,377', M/Mor 12,172, L/Mor 12,448', Barnett 12,695', API No: 30-015-22682

Date: 5-23-79 Card No.: 21 bc

2.) The system will be closed with a pressure limiting device to shut the pumps down if the system exceeds the maximum allowable pressure.

3.) The estimated average injection pressure is 0 psi. The proposed maximum pressure is .2 psi/ft x 14,200 ft. = 2840. If the maximum pressure is approached we would like to seek administrative approval of a higher injection pressure based on a step rate test or other evidence.

4.) Initially the source for the disposal water will be from two (2) batteries which will serve four (4) wells operated by Myco Industries, Inc. in Section 10 - T22S - R28E. Chemical analysis follow. It is intended that the disposal will be expanded to future Delaware wells, and Delaware wells operated by other companies. It is expected that the composition of Delaware formation water is similar throughout the Delaware and that it will be compatible with Devonian Water. (See accompaning map)

5.) The nearest well penetrating the Devonian is the Fidel Federal #1 in 27-21-29. The well was drilled by P.R. Bass and plugged 6-27-67. Formation water data from the Devonian is scarce, but it is expected the Cholrides are about 25,000 ppm.

1543-A

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS

No. W169 & W170-85

To Myco Industries, Inc.

Date February 27, 1985

207 South Fourth Street

Artesia, NM 88210

Submitted by _____ Date Rec. February 27, 1985

Well No. _____ Depth _____ Formation _____

County _____ Field _____ Source _____

	BIG EDDY #106	HOLE IN GROUND #1	
Resistivity	.05 @ 70°	.055 @ 70°	
Specific Gravity	1.13 @ 60°	1.124 @ 60°	
pH	7.0	7.0	
Calcium (Ca)	17,760	14,430	*MPL
Magnesium (Mg)	3,030	3,370	
Chlorides (Cl)	118,000	110,000	
Sulfates (SO_4)	Medium	Medium	
Bicarbonates (HCO_3)	335	335	
Soluble Iron (Fe)	Nil	Nil	
KCL	Nil	Nil	

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Warren Lane - Field Engineer

HALLIBURTON COMPANY

cc:

13,43-A

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS No. W78-85

To Myco Industries, Inc.
207 South Fourth Street
Artesia, NM 88210

Date January 29, 1985

Submitted by Frank Yates, Jr. Date Rec.

Well No. Big Eddy Unit #106 Depth 5543' to 5598' Formation Lower Delaware

County Eddy Field Source Swab

Resistivity	.05 @ 60°			
Specific Gravity	1.16			
pH	7.0			
Calcium (Ca)	13,200			*MPL
Magnesium (Mg)	2,400			
Chlorides (Cl)	149,000			
Sulfates (SO_4)	Light			
Bicarbonates (HCO_3)	210			
Soluble Iron (Fe)	Light			
KCL	Nil			
Oil	50% 40° @ 60°			

Remarks:

*Milligrams per liter

Warren Lane
Respectfully submitted,

Analyst: Warren Lane - Field Engineer

HALLIBURTON COMPANY

cc:

NOTICE

1343-A

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS

No.

To Myco

Date 7/10/84

Submitted by Date Rec. 7/10/84

Well No. Holder Ground Fed #1 Depth 3740-3750 Formation

County Field Source Swab

Resistivity	.070 @ 70°		
Specific Gravity	1.36 @ 60°		
pH	6.4		
Calcium (Ca)	10,900		*MPL
Magnesium (Mg)	2,700		
Chlorides (Cl)	121,000		
Sulfates (SO_4)	Medium		
Bicarbonates (HCO_3)	300		
Soluble Iron (Fe)	high		
H2S	Nil		
API Gravity	40° @ 60° F		

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst:

HALLIBURTON COMPANY

cc:

NOTICE

This report is limited to the described sample tested. Any use of this report agrees that Halliburton shall not be liable

VIII. The proposed injection zone is in the Devonian formation which begins in this well at 13,814' and is estimated to be about 1100 ft. thick. The Devonian is a buff to tan, coarse crystalline dolomite with intercrystalline & vuggy porosity. The fresh water zones in this area are the Rustler Anhydrite from 330' to 405' and the Dewey Lake Redbeds from the surface to 330'

13000 ft. separate the disposal zone from the fresh water zones. Additionally, an impermeable layer of shale called the Mississippian Black Shale exists between the disposal zone (Devonian) and the fresh water zones. Other impermeable zones also protect the fresh water like a layer of anhydrite uphole from 2250 to 2700.

IX. The proposed stimulation is to treat all perforations between 13,800 and 14,200$\pm$ with 7000 gal of 15% acid.

X. Well logs have been filed with the Division.

XI. Following is a Chemical Analysis of the only fresh water well found within one mile.

XII. Geologists representing MYCO have examined available data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of water.

1343-A

C-105 attachment II

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS

No. W144-85

To Myco Industries, Inc.

207 South Fourth Street

Artesia, NM 88210

Date February 20, 1985

Submitted by Frank Yates, Jr. Date Rec.

Well No. Depth Formation

County Field Source Water Well by Big Eddy #1

~~Resistivity~~ Specific gravity	1.003		
~~Specific Gravity~~ Resistivity	1.55 @ 68°		
pH	7.0		
Calcium (Ca)	720		*MPL
Magnesium (Mg)	240		
Chlorides (Cl)	2,500		
Sulfates (SO_4)	Light		
Bicarbonates (HCO_3)	150		
Soluble Iron (Fe)	Nil		

Remarks:

*Milligrams per liter

D. Harvey

Respectfully submitted,

Analyst: Danny Harvey - Field Supervisor

HALLIBURTON COMPANY

cc:

NOTICE

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Shell Oil Company Box 845, Roswell, New Mexico
(Address)

LEASE Big Eddy Unit WELL NO. 1 UNIT C S 36 T-21-S R -28-E

DATE WORK PERFORMED 3-25 thru 9-24-58 POOL Wildcat

This is a Report of: (Check appropriate block)

- [ ] Beginning Drilling Operations
- [x] Plugging
- [ ] Results of Test of Casing Shut-off
- [ ] Remedial Work
- [x] Other Acidize & Sandfrac

Detailed account of work done, nature and quantity of materials used and results obtained.

1. Ran 371 jts. 2 1/2" tubing & hung @ 11,607'.
2. Displaced mud w/water.
3. Pulled up 13 jts. 2 1/2" tubing & set Baker FBRC @ 11,269' open-ended.
4. Perforated 11,541' - 11,549' w/4 jet shots per foot.
5. Ran swab to 11,250' & swabbed 1 BLO.
6. Pumped 250 gallons 7 1/2% HCA down tubing & spotted over interval to be perforated.
7. Perforated 11,456' - 11,474' w/4 jet shots per foot.
8. In 12 hours swabbed 11 BF, cut 99% water & 1% condensate.
9. Loaded hole w/oil & reperforated 11,541' - 11,549' & 11,456' - 11,474' w/4 jet shots per foot.
10. Treated perforations w/1000 gallons 7 1/2% MCA.
11. In 10 hours swabbed 17 BF cut 95% water.
12. Loaded tubing w/oil & treated casing perforations via 2 1/2" tubing w/20,000 gallons gelled lease crude containing 1# sand & 0.1# Adomite/gallon in 3 stages using 60 ball sealers. Flushed w/90 BO.

(Continued on back of page.)

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

Witnessed by _____ _____
(Company)

OIL CONSERVATION COMMISSION

Name M L Armstrong

Title _____

Date _____

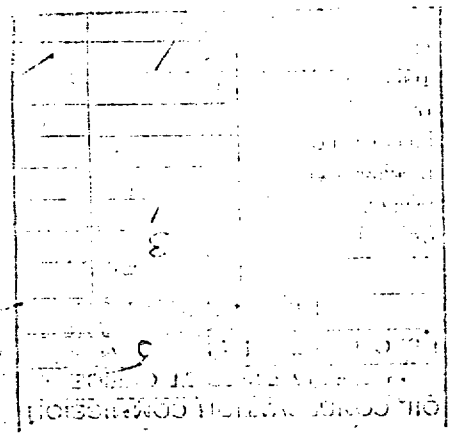
I hereby certify that the information given above is true and complete to the best of my knowledge.

Name Rex C. Cabaniss Original Signed By Rex C. Cabaniss

Position District Exploitation Engineer

Company Shell Oil Company

13. In 12 hours swabbed 32 BF cut 60% water & 30% BS.
14. Treated formation via tubing w/40,000 gallons 3% Intensified acid using 60 RCN balls. Flushed w/70 BW.
15. In 3 hours swabbed 8 BF cut 69% water & 31% heavy emulsion.
16. Pulled 2 1/2" tubing.
17. Ran 2 7/8" tubing open-ended to 11,646'.
18. Spotted 50 sx. Inferno Slo-set cement 11,200' - 11,650'.
19. Raised 2 7/8" tubing to 11,038' & reversed out. Pulled tubing.
20. Cut & pulled 5 1/2" casing from 10,672' & 9 5/8" casing from 5836'.
21. Spotted cement plugs - 100 sx. regular neat - 2625' - 2565'
    10 sx. regular neat - 13" - surface.
22. Cut off 13 3/8" Flange-welded flat steel plate on top 13 3/8".
23. Erected standard 4" x 4" marker w/well location welded on same.
24. Well completed P&A 9-24-58.



County Eddy Depth 14000' Pool Wildcat *

SCOUT REPORT
NEW MEXICO OIL CONSERVATION COMMISSION

Company Shell Oil Co. Well No. 1 Lease Big Eddy Unit

660 Feet from N Line 1980 Feet from W Line, Sec. 36 Twp. 21S Rge. 28E

5/5 Land State Contractor [illegible]

T. A	
T. X	
B. X	
T. Del Li	2704
T. Del Sd	2811
T. Y	
T. SR	
T. Q	
T. PR	
T. GB	
T. SA	
T. Glo	
T. Blby	
T. CF	

Elevation 3219 DF Spudded 9-25-57 Completed 9-24-58

T. Tu	Total Depth 14059 [illegible]	P. B.
T. Full	Top Pay	District
T. DR	I.P.	BOPD
T. Wich A.	Base on	BO Hrs.
T. Abo	Choke:	Inch
T. WC 7932 9433	Tubing	@ Ft.
T. Hu	Press: Tbg.	Csg.
T. Per-Pe	GOR	Gravity
T. Penn 11245 11231	Effective Perfs.:	
T. Strawn		
T. Miss 13130 13170		
T. WF		
T. Dev 13800 13800		

CSG. & CEMENTING RECORD

Size	Feet	Sax Cement
20	271	325
13 3/8	2870	1475
9 5/8	8693	500
5 1/2	11698	280

Acid. Frac & Shooting Record:

	From	To
T. Sil	From	To
T. Fuss	From	To
T. Mon	From	To
T. Simp	From	To
T. McK	P & A	
T. Ell		
T. G.W.		

	SHOWS
T. Bone Springs 6338	S/ [illegible] 11464
T. Atoka 11772	S/
T.	S/
T.	S/
T.	S/
T.	S/

9-18-57	Bldg. Roads	NOV 6	D 4365 [illegible]
SEP 2[illegible]	Ran		[illegible] w/ 100 [illegible]
OCT 2	D 1095 X		DST 3734-3806 51"
OCT 9	D 2125 anhy		rec 10' [illegible] + 100' [illegible]
OCT 16	D 2664 anhy & lime		[illegible] + 200' [illegible]
OCT 23	D 3345 [illegible]		[illegible]
[illegible]	2819-2920 rec 52' [illegible]	NOV 1[illegible]	[illegible]
OCT 30	TD 3449 [illegible]		D 5862 [illegible]

[illegible]

dst	4491-4577 2' rec 450' sli O+
	Gcm +1640 sli O+Gc sul wtr
	fp 300-1280# 35" si 1990#
NOV 2 0	TD 6676 li rng logs
dst	6212-6305 2'5" rec 1080'
	m +480' sli Gcm w/ trace oil
	fp 400-670# 45" si 765#
NOV 2 9	D 7340 li+sh
DEC 4	D 8045 li
DEC 1	TD 8685 li rng logs
DEC 1 3	D 8930 li
DEC 3 1	D 10329 li sh+sd
dst	9679-9718 30" hd a leak in dp
rec	4700' m + 30' sli Gcm fp 970-1360#
	30"si 1415#
JAN 8	D 11141 li+sh
JAN 1 5	TD 11477 li+sh on dst
	drlg break @ 11432 Gas kick @ 11464
dst	11396-477 pkr failed after 10"
	GTS 10" spray O-il 8" rec 540'
	sli O+Gcm 30" si 6240 fp 260#
JAN 2 2	D 11778 li+sh
dst	11361-477 2'2" D. 3" flo
to pits	37" flo @ 1725 mcFPD + Increase
	to 1250 mcF at end of test over sub failed
1'24"	rec gas w/ trace oil
	38" si 600# fp 400-620"

Still Oil Co. #1 Big [illegible] Unit

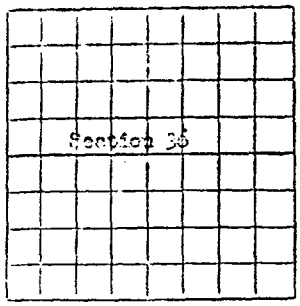
660 N & 1980 W — DRILLING PROGRESS — 36-21-28

Date	Depth	Remarks and History
	dst	11522-651 3' 5" [illegible] 10" @ 300 m
	CFPD	+ increased to 905 MCF rec 240' [illegible]
		dist cm + 90' [illegible] + 90' [illegible]
		fp 270-815# 30 [illegible] 5[illegible]#
[illegible]		d 12186 li + ch
FEB [illegible]		d 12510 sh [illegible]
	dst	12228-490 40" • pkr failed rec
		2912' m 30 [illegible] 2465# fp 365-325# [illegible]
FEB 1[illegible]		d 12681 [illegible]
FEB 1[illegible]		TD 12962 sh On dst 12561-962
FEB 2[illegible]		d 13330 li + ch
	dst	12561-962 3' rec 752' [illegible]
		+ 758' XW cm + 1980' XW 45" [illegible] 5520#
		fp 535-1955# 40" [illegible] 5290#
MAR 5		d 13581 l + ch
MAR [illegible]		TD 13840 dolo on dst 13620-840
[illegible]		TD 14059 dolo [illegible] dst 13[illegible]-14059
	dst	13620-840 4' 500# nitrogen [illegible]
		rec 2700' [illegible] + 450' XW cm +
		720' m + [illegible]
		fp 1175-2[illegible]# 45" [illegible] [illegible]#
	dst	13880-990 4' rec 630' [illegible]
		+ 180' m c XW fp 225-525#
		30" [illegible] 6185#
MAR [illegible]		TD 14059 dolo [illegible] 11680 [illegible]
		dst 13988-14059 [illegible] rec 100'
		[illegible] + 6870' X [illegible] fp
		225-3180 50" [illegible] 62[illegible]
		[illegible] to TD
APR [illegible]		TD 14059 [illegible] PB 11680 [illegible]
		[illegible] 32h 11541-549 [illegible]
		527 [illegible] [illegible] 10'
		2[illegible] [illegible] 125
APR [illegible]		TD 14059 [illegible] PB 11680 [illegible]
	[illegible]	72h 11486-478 [illegible] 250 [illegible]
		12' 2[illegible] [illegible] 45" [illegible]
		[illegible]

DRILLING PROGRESS

Date	Depth	Remarks and History
	[illegible]	10 ½ BW + ½ BD 12'
		[illegible] 24h 11543-549, 321 11456-474
		A 1000 [illegible] 110 BLO 12'
		18/64" [illegible] 17 BF 95 BW 59 BLO
		10' [illegible] 10,000 [illegible]
		16' [illegible] 4500#
APR 16	[illegible]	TD 14059 [illegible] PB 11680 [illegible]
[illegible]	-	[illegible] 92 BF [illegible] 50% [illegible] 50% [illegible]
	[illegible]	[illegible] F 40,000 [illegible]
		[illegible] 328 BF [illegible] 95% [illegible]
		44' 436 BLW + 625 BLO [illegible]
		12' [illegible] 1080#
APR 22		TD 14059 [illegible] PB 11680 [illegible]
		40 [illegible] TP 2000#
		[illegible] 1750 MCF + dec to 560 MCF in
		1" 28/64"[illegible]
		[illegible] 322 MCF [illegible]
		[illegible] 12 BLO 417 BLW 12'
		192 BLW + 609 BLO [illegible]
APR		TD 14059 [illegible] PB 11680 [illegible]
		74' [illegible] 1466#
		609 BLO + 184 BLW
MAY 7	[illegible]	✓✓✓✓✓✓✓ ✓✓✓
JUL [illegible]		✓✓✓✓✓✓✓✓✓ ✓✓
[illegible]		✓✓

R-28-E



AREA 640 ACRES
LOCATE WELL CORRECTLY

(Revised 7/1/58)
(Form C-105)

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

Shell Oil Company (Company or Operator) Big Eddy Unit (Lease)

Well No. 1, in NE ¼ of NW ¼, of Sec. 36, T. -21-S, R. -28-E, NMPM.

Wildcat Pool, Eddy County.

Well is 660 feet from north line and 1980 feet from west line of Section 36. If State Land the Oil and Gas Lease No. is E-5232

Drilling Commenced September 25, 19 57 Drilling was Completed March 17, 19 58

Name of Drilling Contractor Parker Drilling Company

Address Wilkinson-Foster Building, Room A, Midland, Texas

Elevation above sea level at Top of Tubing Head 3209 The information given is to be kept confidential until not confidential, 19

OIL SANDS OR ZONES

No. 1, from ..... to ..... No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet. .....

No. 2, from ..... to ..... feet. .....

No. 3, from ..... to ..... feet. .....

No. 4, from ..... to ..... feet. .....

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
20"	94	new	251'				Surface String
13 3/8"	54.5 & 61#	new	2,813'				Intermediate
9 5/8"	47, 40, 43.5#	new	8,670'		5,836'		Intermediate
5 1/2"	17# & 20#	new	11,679'	Larkin	10,672'		Oil string

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
24"	20"	272'	325	Pump & Plug	Cemented to surface	
17 1/2"	13 3/8"	2,870'	1015	Pump & Plug	Cemented to surface	
12 1/4"	9 5/8"	(8,693')	500	Pump & Plug	Cemented to surface — ? WRONG	
7 7/8"	5 1/2"	11,698'	250	Pump & Plug		

CUT/PULLED 9 5/8 FROM 5836'

8639?

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

See Attachment

Result of Production Stimulation .....

Depth Cleaned Out .....

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from 0 feet to 14,059 feet, and from ..... feet to ..... feet.

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet.

PRODUCTION

[illegible] P&A September 24, 19 58

OIL WELL: The production during the first 24 hours was ..... barrels of liquid of which ..... % was was oil; ..... % was emulsion; ..... % water; and ..... % was sediment. A.P.I. Gravity .....

GAS WELL: The production during the first 24 hours was ..... M.C.F. plus ..... barrels of liquid Hydrocarbon. Shut in Pressure ..... lbs.

Length of Time Shut in .....

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Devonian	T. Ojo Alamo	
T. Salt	T. Silurian	T. Kirtland-Fruitland	
B. Salt	T. Montoya	T. Farmington	
T. Yates	T. Simpson	T. Pictured Cliffs	
T. 7 Rivers	T. McKee	T. Menefee	
T. Queen	T. Ellenburger	T. Point Lookout	
T. Grayburg	T. Gr. Wash	T. Mancos	
T. San Andres	T. Granite	T. Dakota	
T. Glorieta	T. Bone Spring 6338' (-3119')	T. Morrison	
T. Drinkard	T. Wolfcamp 9933' (-6714')	T. Penn.	
T. Tubbs	T. Atoka 11,372' (-8153')	T.	
T. Abo	T. Miss. Black Shale 13,645'	T.	
T. Penn. 11,231' (-8012')	T. (-10,426')	T.	
T. Miss. 13,170' (-9951')	T.	T.	

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	300	300	Silt, Sand, Shale, Dolomite				
300	520	220	Gypsum				
520	1320	800	Salt				
1320	2720	1400	Anhydrite				
2720	2870	150	Limestone				
2870	6340	3470	Sand w/streaks of lime & Shale				
6340	7430	1090	Lime & Shale				
7430	7670	330	Sand & Shale				
7670	9500	1830	Limestone w/streaks of Shale Silt & Sand				
9500	9810	310	Sand & Shale				
9810	10330	520	Limestone & Shale				
10330	10850	520	Shale				
10850	11500	650	Limestone				
11500	11600	100	Sand & Shale				
11600	12200	600	Limestone & Shale				
12200	12850	650	Sand & Shale				
12850	13170	320	Shale				
13170	13640	470	Limestone & Chert				
13640	13800	160	Shale				
13800	14059	259	Dolomite				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

September 26, 1958
(Date)

Company or Operator Shell Oil Company Address Box 845, Roswell, New Mexico

Name Rex C. Cabaniss (Original Signed By Rex C. Cabaniss) Position or Title District Exploitation Engineer

ATTACHMENT FOR FORM C-105

Shell Oil Company
Big Eddy Unit # 1
Sec. 36-21S-28E
Eddy County, New Mexico

1. Perforated 11,541' - 11,549' w/4 jet shots per foot.
2. Swabbed 1 BLO.
3. Perforated 11,456' - 11,474' w/4 jet shots per foot.
4. In 12 hours swabbed 11 BF, cut 99% water & 1% Condensate.
5. Loaded hole w/oil & reperforated 11,541' - 11,549' & 11,456' - 11,474' w/4 jet shots per foot.
6. Treated perforations w/1000 gallons 7 1/2% MCA.
7. In 10 hours swabbed 17 BF, cut 95% water.
8. Loaded tubing w/oil & treated casing perforations via 2 1/2" tubing w/20,000 gallons gelled lease crude containing 1# sand & 0.1# Adomite/gallon in 3 stages using 60 ball sealers. Flushed w/90 BO.
9. In 12 hours swabbed 32 BF, cut 60% water 7 30% BS.
10. Treated formation via tubing w/40,000 gallons 3% Intensified acid using 60 RCN balls. Flushed w/70 BW.
11. In 3 hours swabbed 8 BF cut 69% water & 31% heavy emulsion.
12. Ran 2 7/8" tubing open-ended to 11,646'.
13. Spotted 50 sx. Inferno Slo-set cement 11,200' - 11,650'.
14. Cut & pulled 5 1/2" casing from 10,672' & 9 5/8" casing from 5836'.
15. Spotted cement plugs - 100 sx. regular neat 2625' - 2565'
    10 sx. regular neat 18' - surface
16. Cut off 13 3/8" Flange-welded flat steel plate on top 13 3/8".
17. Erected standard 4" x 4' marker w/well location welded on same.
18. Well completed P&A.

Original Signed By
Rex C. Cabaniss

ATTACHMENT FOR FORM C-105

Big Eddy Unit # 1
Sec. 36-21S-28E
Eddy County, New Mexico

DST # 1: 3734' - 3906' (72' Delaware Mountain Sand). Tool open 51 minutes thru 5/8" BC & 1" TC on 5 9/16" DS. Immediate very weak blow increasing slightly to weak at end of test. NGTS. Recovered 10' (0.09 bbl.) free oil (Gr. 40.1 deg.) + 100' (0.9 bbl.) slightly oil (5%) & gas cut mud + 200' (1.8 bbl.) very slightly oil & gas cut mud. 22 minutes ISIBHP failed. 24 minutes FSIBHP failed. FBHP 80 - 160 psi. HHH 1713 psi. Pit & recovery mud titrated 3150 ppmCl⁻. Conclusive Test. (Halliburton)

DST # 2: 4401' - 4577' (176' Delaware Mountain Sand). Tool open 2 hours thru 1/4" TC & 5/8" BC on 5 9/16" DS. Opened w/weak blow, remaining same throughout test. NGTS. Recovered 360' (8.2 bbls.) heavily gas & very slightly oil cut mud, 90' (2.0 bbls.) water, oil & gas cut mud (est. 5% oil), 180' (4.1 bbls.) slightly oil & gas cut water (trace oil), 1500' (34.0 bbls.) very slightly oil & gas cut sulfur water. IFP 300 psi. FFP 1280 psi. FSIP 1990 psi. HHH 2180 - 2160 psi. ISIBHP failed. Maximum BHT 116 deg. F. Recovery water titrated 100,000 ppmCl⁻, pit mud titrated 4200 ppmCl⁻. Conclusive Test. (Cook)

DST # 3: 6212' - 6345' (133' Delaware Mountain Sandstone). Tool open 2 hours 5 minutes thru 1/4" TC & 5/8" BC on 5 9/16" DS. opened w/very weak blow of air gradually increasing to weak at end of test. NGTS. Recovered 1080' drilling mud & 480' very slightly gas cut mud w/very slight trace of oil. No sign of water. 45 minutes ISIP 265 psi. FP 400 - 670 psi. 45 minutes FSIP 765 psi. Pit mud titrated 7000 ppmCl⁻. Recovery mud titrated 7200 ppmCl⁻. Conclusive Test.

DST # 4: 9679' - 9718' (39' Bone Spring ?). Tool open 30 minutes thru 5/8" BC & 1" TC on 4" DS. Opened w/no blow except as caused by leak in DP. DP began leaking slightly while taking ISISBHP, then increased while taking FSIBHP. Recovered 4700' (5 bbls.) drilling mud w/no show + 30' (0.3 bbl.) drilling mud w/very slight trace gas. 30 minutes ISIBHP 305 psi. FBHP 970 - 1360 psi. 30 minutes FSIBHP 1415 psi. HHH 4565 - 4580 psi. Conclusive Test. (Johnston)

DST # 5: 11,361' - 11,477' (115' Pennsylvanian limestone & sandstone). Tool open 2 hours 2 minutes thru 1" & 1/4" TC, 5/8" BC on 4" DS. Opened w/strong blow of air. GTS in 3minutes. Flowed gas w/slight mist of oil to pits for 37 minutes & turned to separator. Gas flowed through separator at initial rate of 1.725 MMCFPD which decreased to 1.250 MMCFPD in 27 minutes. After 1 hour & 24 minutes of flowing test circulating sub failed filling drill string w/mud. Mud below circulating sub was gas cut w/trace of oil. 38 minutes ISIBHP 6080 psi (fully built up). FBHP 700 - 620 psi. HHH 6700 psi. Pit mud titrated 2100 ppmCl⁻. Mud below circulating sub 2400 ppmCl⁻. Maximum BHT 163 deg. F. Test considered partially Conclusive. (Cook)

DST # 6: 11,522' - 11,651' (129' Pennsylvanian Atoka sand, shale & lime). Tool open 3 hours 5 minutes thru 1" & 1/2" TC, 5/8" BC on 4" DS. Opened w/strong blow of air. GTS 10 minutes. Flowed at initial rate of approximately 300 MCFPD. Flowed to pits 45 minutes then turned to separator. Rate increased from initial 300 MCFPD to a peak of 905 MCFPD in 1 hour 52 minutes. Then in next 20 minutes decreased to approximately 800 MCFPD & remained at 800 MCFPD for remainder of test (43 minutes). Recovered 240' (1.6 bbls.) gas & slightly condensate cut mud (est. 3% condensate), 90' (0.44 bbl.) gas & salt water cut mud w/trace condensate + 90' (0.44 bbl.) salt water. Pit mud titrated 2350 ppmCl⁻. Salt water titrated 25,400 Cl⁻. 5 minutes ISIBHP 6440 psi (not completely built up). FBHP 290 - 815 psi. 30 minutes FSIBHP 5900 psi (completely built up). HHH 7125 - 7125 psi. Maximum BHT 170 deg. F. Positive Test. (Johnston)

Original Signed By
Rex C. Columbus

DST # 7: 12,228' - 12,490' (262' Pennsylvanian (Atoka) Sand, Shale & Limestone). Tool open 40 minutes thru 5/8" BC, 1" TC on 4" DS. Tool opened w/immediate good air blow decreasing to weak in 20 minutes. NGTS. Packers failed after tool open 40 minutes. Recovered 2912' (27 bbls.) drilling mud, no show. No indication of formation water. 30 minutes ISIBHP 2465 psi (not completely built up). FBHP 365 - 325 psi. FSIBHP not taken due to packer failure. HHH 7470 - 7570 psi. Pit mud titrated 2300 ppmCl^-. Recovery mud titrated 1940 ppmCl^-. Maximum BHT 163 deg. F. Conclusive Test. (Johnston)

DST # 8: 12,561' - 12,962' (401' Atoka, Pennsylvanian sand & shale). Tool open 3 hours thru 5/8" BC, 1" & 1/4" TC (open alternately) on 4" DS. Opened w/weak blow increasing to good in 5 minutes (good thru 1/4" choke & weak thru 1" choke) & remained constant throughout test. NGTS. (Recovered 752' (7.6 bbls.) very slightly gas cut mud, 758' (7.6 bbls.) slightly water cut mud & 1980' (20 bbls.) salty water titrating 17,900 ppmCl^-. Pit mud titrated 2300 ppmCl^-. 45 minutes ISIBHP 5520 psi (built up). FBHP 535 - 1955 psi. 40 minutes FSIBHP 5290 psi (Built up). HHH 7980 - 7935 psi. Maximum BHT 185 deg. F. Positive Test. (Johnston)

DST # 9: 13,620' - 13,840' (25' Mississippian, 155' Wolfcamp, 40' Devonian). Pressured 3000' DS to 500 psi w/Nitrogen. Tool open 4 hours. Tool opened thru 5/8" BC, 1" TC, 4" DS w/strong air blow decreasing steadily to weak at end of 4 hours. NGTS. Recovered 2700' (30 bbls.) very slightly gas cut mud, 450' (5 bbls.) slightly water cut mud & 720' (7 bbls.) mud cut & slightly gas cut water w/slight sulfur odor. Recovery water titrated 10,000 ppm N_aCl., pits 3200 ppm N_aCl. 60 minutes ISIBHP failed. FBHP 1775 - 2415 psi. 45 minutes FSIBHP 4590 psi (fairly well built up). HHH 8080 - 8020 psi. Conclusive Test. (Johnston) BHT 193 deg. - 207 deg. F.

DST # 10: 13,880' - 13,990' (110' Siluro Devonian Dolomite). Tool open 4 hours thru 1" TC, 5/8" BC on 4" DS. Opened w/weak air blow lasting throughout test. NGTS. Recovered 630' (3.8 bbls.) water cut mud. (Recovery mud titrated 10,000 ppmCl^-, pit mud titrated 3500 ppmCl^-.) & 180' (1 bbl.) mud cut water. (Water titrated 15,000 ppmCl^-). FBHP 225 - 525 psi. 30 minutes SIBHP 6155 psi. HHH 8520 - 8540 psi. BHT 232 deg. F. Positive Test. (Johnston)

DST # 11: 13,988' - 14,059' (71' Devonian). Tool open 3 1/2 hours thru 5/8" BC, 1" TC on 4" DS. Opened w/immediate weak blow increasing to fair in 30 minutes. NGTS. Recovered 180' (1.7 bbls.) mud cut salt water & 6440' (63 bbls.) salt water & 430' (4.5 bbls.) salt water w/slight sulfur odor. Recovery water titrated 15,000 - 30,000 N_aCl. Pit mud titrated 3500 ppm N_aCl. FBHP 225 - 3180 psi. 50 minutes FSIBHP 6235 psi. HHH 8480 psi. BHT 218 deg. F. Positive Test. (Johnston)

Original Signed By
Rex C. Cabaniss

(Form C-102)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

Notice of Intention to Change Plans		Notice of Intention to Temporarily Abandon Well	x	Notice of Intention to Drill Deeper	
Notice of Intention to Plug Well		Notice of Intention to Plug Back		Notice of Intention to Set Liner	
Notice of Intention to Squeeze		Notice of Intention to Acidize		Notice of Intention to Shoot (Nitro)	
Notice of Intention to Cut Perforate		Notice of Intention (Other)		Notice of Intention (Other)	

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Roswell, New Mexico (Place) August 20, 1958 (Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the

Shell Oil Company (Company or Operator) Big Eddy Unit Well No. 1 in C (Unit)

NE ¼ NW ¼ of Sec. 36, T. 21 S, R. 28 E, NMPM., Big Eddy Area Wildcat Pool
(40-acre Subdivision)

Eddy County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

1. Load hole with 10#/gal mud. PBTD 11,674'.
2. Spot 500 foot slo-set cement plug (50 sacks) in 5½" casing between 11,600' and 11,100'. Perforations at 11,474'-11,549'.
3. Cut and pull 5½" casing at approximately 10,700'.
4. Cut and pull 9-5/8" casing at approximately 7000'.
5. Spot 140 foot regular neat cement plug (100 sacks) in 13-3/8" casing at casing shoe (2670').
6. Spot 10 sacks regular neat cement plug at surface.

Approved AUG 21 1958, 19
Except as follows:

Approved
OIL CONSERVATION COMMISSION
By M L Armstrong
Title

Shell Oil Company
Company or Operator
By R. L. Elkins
Position Division Mechanical Engineer
Send Communications regarding well to:
Name Shell Oil Company
Address Box 845 Roswell, New Mexico

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Shell Oil Company Box 845 Roswell, New Mexico
(Address)

LEASE Big Eddy Unit WELL NO. 1 UNIT C S 36 T 21 S R 28 E

DATE WORK PERFORMED April 4, 1958 POOL Big Eddy Area

This is a Report of: (Check appropriate block)

- [ ] Beginning Drilling Operations
- [ ] Plugging
- [ ] Results of Test of Casing Shut-off
- [ ] Remedial Work
- [x] Other Perforations

Detailed account of work done, nature and quantity of materials used and results obtained.

Reperforated 5-1/2" casing 11,541'-11,549', and 11,456'-11,474' (original PGAC depths) with 4 jet shots per foot.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

Witnessed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

Name M L Armstrong
Title Oil and Gas Inspector
Date APR 9 1958

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

Name R. L. Elkins ORIGINAL SIGNED BY R. L. ELKINS
Position Division Mechanical Engineer
Company Shell Oil Company

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Shell Oil Company Box 845 Roswell, New Mexico
(Address)

LEASE Big Eddy Unit WELL NO. 1 UNIT C S 35 T 21 S R 28 E

DATE WORK PERFORMED April 2, 1958 POOL Big Eddy Area

This is a Report of: (Check appropriate block)

- ☐ Beginning Drilling Operations
- ☐ Plugging
- ☐ Results of Test of Casing Shut-off
- ☐ Remedial Work
- ☑ Other Perforations

Detailed account of work done, nature and quantity of materials used and results obtained.

Perforated 5-1/2" casing 11,456'-11,474' (original PGAC depths) with 4 jet shots per foot using PGAC tubing gun.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

Witnessed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

Name M L Armstrong
Title Petroleum Engineer
Date APR 4 1958

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

ORIGINAL SIGNED BY R. L. ELKINS

Name R. L. Elkins
Position Division Mechanical Engineer
Company Shell Oil Company

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

RECEIVED
APR 3 1958

COMPANY Shell Oil Company Box 845 Roswell, New Mexico
(Address)

LEASE Big Eddy Unit WELL NO. 1 UNIT C S 36 T 21 S R 28 E

DATE WORK PERFORMED March 31, 1958 POOL Big Eddy Area

This is a Report of: (Check appropriate block)

- [ ] Beginning Drilling Operations
- [ ] Plugging
- [ ] Results of Test of Casing Shut-off
- [ ] Remedial Work
- [x] Other Perforations

Detailed account of work done, nature and quantity of materials used and results obtained.

Perforated casing 11,541'-11,549' (PGAC depths) with 4 jet shots per foot.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

Witnessed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

Name M L Armstrong
Title _____
Date APR 3 1958

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

ORIGINAL SIGNED BY R. L. ELKINS

Name R. L. Elkins
Position Division Mechanical Engineer
Company Shell Oil Company

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Shell Oil Company Box 845 Roswell, New Mexico
(Address)

LEASE Big Eddy Unit WELL NO. 1 UNIT C S 36 T 21 S R 28 E

DATE WORK PERFORMED 3-23 thru 25-58 POOL Big Eddy Area

This is a Report of: (Check appropriate block)

- [x] Results of Test of Casing Shut-off
- [ ] Beginning Drilling Operations
- [ ] Remedial Work
- [ ] Plugging
- [ ] Other

Detailed account of work done, nature and quantity of materials used and results obtained.

Ran 11,679' of 5-1/2" casing and cemented @ 11,698' with 250 sacks. Plug down with 1500 psi @ 11:58 p.m. (MST), March 23, 1958. After WOC 36 hours, tested casing with 1500 psi. Test O.K.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

Witnessed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

Name M L Armstrong
Title Petroleum Engineer
Date APR 3 1 1958

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

Name R. L. Elkins ORIGINAL SIGNED BY R. L. ELKINS
Position Division Mechanical Engineer
Company Shell Oil Company

(Form C-102)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

MISCELLANEOUS NOTICES

MAR 24 1958

...ce in TRIPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. A copy will be ... to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission ... of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See addi... instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

...E OF INTENTION ...NGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
...E OF INTENTION ...ILL WELL		NOTICE OF INTENTION TO PLUG BACK	x	NOTICE OF INTENTION TO SET LINER	
...E OF INTENTION ...EEPER		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (Nitro)	
...E OF INTENTION ...PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION (OTHER)	

...NSERVATION COMMISSION
... FE, NEW MEXICO

Roswell, New Mexico (Place) March 21, 1958 (Date)

...men:

...llowing is a Notice of Intention to do certain work as described below at the Big Eddy Unit

Shell Oil Company (Company or Operator) Well No. 1 in C (Unit)

...¼ NW ¼ of Sec. 36, T. 21 S, R. 28 E, NMPM., Big Eddy Area Wildcat Pool
(40-acre Subdivision)

Eddy County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

Spot 140 sacks slo-set neat cement plug at T.D. 14,049'. Approximate fill - 100' above Devonian.
Spot 45 sacks slo-set neat cement. Approximately 100' of fill to 11,800'.

This program discussed with Mr. Armstrong.

...d MAR 24 1958, 19...
as follows:

...d
...NSERVATION COMMISSION
W L Armstrong

Shell Oil Company
Company or Operator
By R. L. Elkins
Position Division Mechanical Engineer
...nd communications regarding well to:
Name Shell Oil Company
Box 485
Address Roswell, New Mexico

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Shell Oil Company Box 845 Roswell, New Mexico
(Address)

LEASE Big Eddy Unit WELL NO. 1 UNIT C S 36 T 21 S R 28 E

DATE WORK PERFORMED 12-12 thru 12-16-57 POOL Big Eddy Area

This is a Report of: (Check appropriate block)

- [ ] Beginning Drilling Operations
- [ ] Plugging
- [x] Results of Test of Casing Shut-off
- [ ] Remedial Work
- [ ] Other

Detailed account of work done, nature and quantity of materials used and results obtained.

Ran 8670' of 9-5/8" casing and cement @ 8693' with 500 sacks. Plug down @ 8:00 pm (MST) 12-12-57. Did not bump plug. After WOC 48 hours, tested casing with 2000 psi for 30 minutes. Test O.K. Drilled out formation and tested. Test O.K.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

Witnessed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

Name W. A. Gressett

Title Supervisor

Date DEC 18 1957

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

Name R. L. Elkins ORIGINAL SIGNED BY R. L. ELKINS

Position Division Mechanical Engineer

Company Shell Oil Company

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Shell Oil Company Box 845 Roswell, New Mexico
(Address)

LEASE Big Eddy Unit WELL NO. 1 UNIT C S 36 T 21 S R 28 E

DATE WORK PERFORMED 10-18 thru 10-21-57 POOL Big Eddy Area

This is a Report of: (Check appropriate block)

- [ ] Beginning Drilling Operations
- [ ] Plugging
- [x] Results of Test of Casing Shut-off
- [ ] Remedial Work
- [ ] Other

Detailed account of work done, nature and quantity of materials used and results obtained.

Ran 2843' of 13-3/8" casing and cemented @ 2270' with 1045 sacks. Plug down @ 6:20 pm (MST) 10-18-57. After WOC 36 hours, tested with 1500 psi for 30 minutes. Drilled out formation and tested with 1100 psi for 15 minutes. Test O.K.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

Witnessed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

Name M L Armstrong
Title Supervisor
Date OCT 23 1957

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

Name R. L. Elkins
Position Division Mechanical Engineer
Company Shell Oil Company

ORIGINAL SIGNED BY
R. L. ELKINS

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

PANY Shell Oil Company Box 1957 Hobbs, New Mexico
(Address)

SE Big Eddy Unit WELL NO. 1 UNIT C S 36 T 21 S R 28 E

E WORK PERFORMED 9-26 thru 9-29-57 POOL Big Eddy Area

is a Report of: (Check appropriate block)

[x] Results of Test of Casing Shut-off

[ ] Beginning Drilling Operations

[ ] Remedial Work

[ ] Plugging

[ ] Other

.led account of work done, nature and quantity of materials used and results obtained.

Ran 251' of 20" casing and cemented w 271' with 325 sacks. Circulated out approximately 25 sacks. Plug down @ 11:30 A.M. (MST) 9-28-57. After WOC 24 hours, tested casing with 500 psi. Test O.K.

, IN BELOW FOR REMEDIAL WORK REPORTS ONLY

.nal Well Data:

lev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Interval (s) _____

Hole Interval _____ Producing Formation (s) _____

JLTS OF WORKOVER:	BEFORE	AFTER
of Test		
roduction, bbls. per day		
Production, Mcf per day		
r Production, bbls. per day		
Oil Ratio, cu. ft. per bbl.		
Well Potential, Mcf per day		

essed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

e M L Armstrong
OIL AND GAS INSPECTOR
OCT 9 1957

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

ORIGINAL SIGNED BY R. L. ELKINS

Name R. L. Elkins

Position Division Mechanical Engineer

Company Shell Oil Company

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Shell Oil Company Box 1957 Hobbs, New Mexico
(Address)

LEASE Big Eddy Unit WELL NO. 1 UNIT C S 36 T 21 S R 28 E

DATE WORK PERFORMED 9-25-57 POOL Big Eddy Area

This is a Report of: (Check appropriate block)

- [x] Beginning Drilling Operations
- [ ] Plugging
- [ ] Results of Test of Casing Shut-off
- [ ] Remedial Work
- [ ] Other

Detailed account of work done, nature and quantity of materials used and results obtained.

Spudded 1:00 P.M. (MST) 9-25-57.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

Witnessed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

Name M L Armstrong
Title OIL AND GAS INSPECTOR
Date SEP 30 1957

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

Name R. L. Elkins ORIGINAL SIGNED BY R. L. ELKINS
Position Division Mechanical Engineer
Company Shell Oil Company

(Form C-101)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

SEP 1 1957

NOTICE OF INTENTION TO DRILL ~~RECOMPLETION~~

Notice must be given to the District Office of the Oil Conservation Commission and approval obtained before drilling or recompletion begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in QUINTUPLICATE. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

Hobbs, New Mexico (Place) September 16, 1957 (Date)

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Gentlemen:

You are hereby notified that it is our intention to commence the (Drilling) ~~RECOMPLETION~~ of a well to be known as

Shell Oil Company (Company or Operator)

Big Eddy Unit (Lease), Well No. 1, in C (Unit). The well is located 660 feet from the north line and 1980 feet from the west line of Section 36, T-21-S, R-28-E, NMPM.

(GIVE LOCATION FROM SECTION LINE) Undesignated (Wildcat) Pool, Eddy County

If State Land the Oil and Gas Lease is No. B-5232

If patented land the owner is

Address

We propose to drill well with drilling equipment as follows: Rotary Tools

The status of plugging bond is Blanket

Drilling Contractor Parker Drlg. Co.

We intend to complete this well in the Devonian formation at an approximate depth of 14,000 feet.

B-2 C-E

D	~~E~~	B	A	T
E	F	G	H	21
L	K	J	I	S
M	N	O	P	

Section 36

CASING PROGRAM

We propose to use the following strings of Casing and to cement them as indicated:

Size of Hole	Size of Casing	Weight per Foot	New or Second Hand	Depth	Sacks Cement
24"	20"	94#	new	150'	200
17 1/2"	13 3/8"	54.5# & 61#	new	3000'	2500
12 1/4"	9 5/8"	40#, 43.5#, 47#	new	8500'	1200
8 5/8"	5 1/2" or 7"	*	new	*	*

If changes in the above plans become advisable we will notify you immediately.

ADDITIONAL INFORMATION (If recompletion give full details of proposed plan of work.)

*Dependent upon oil shows, lost circulation, high pressure gas, etc.

SEP 20 1957
Approved ....., 19.....
Except as follows:

OIL CONSERVATION COMMISSION
By M L Armstrong
OIL AND GAS INSPECTOR

Sincerely yours,
Shell Oil Company (Company or Operator)
By P. A. Dennie
Position Division Exploitation Engineer
Send Communications regarding well to
Name Shell Oil Company
Address P. O. Box 1957
Hobbs, New Mexico

Form C-128
Revised 5/1/57

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

Date September 16, 1957

Operator Shell Oil Company Lease Big Eddy Unit

Well No. 1 Unit Letter C Section 36 Township T-21-S Range R-28-E NMPM

Located 660 Feet From north Line, 1980 Feet From west Line

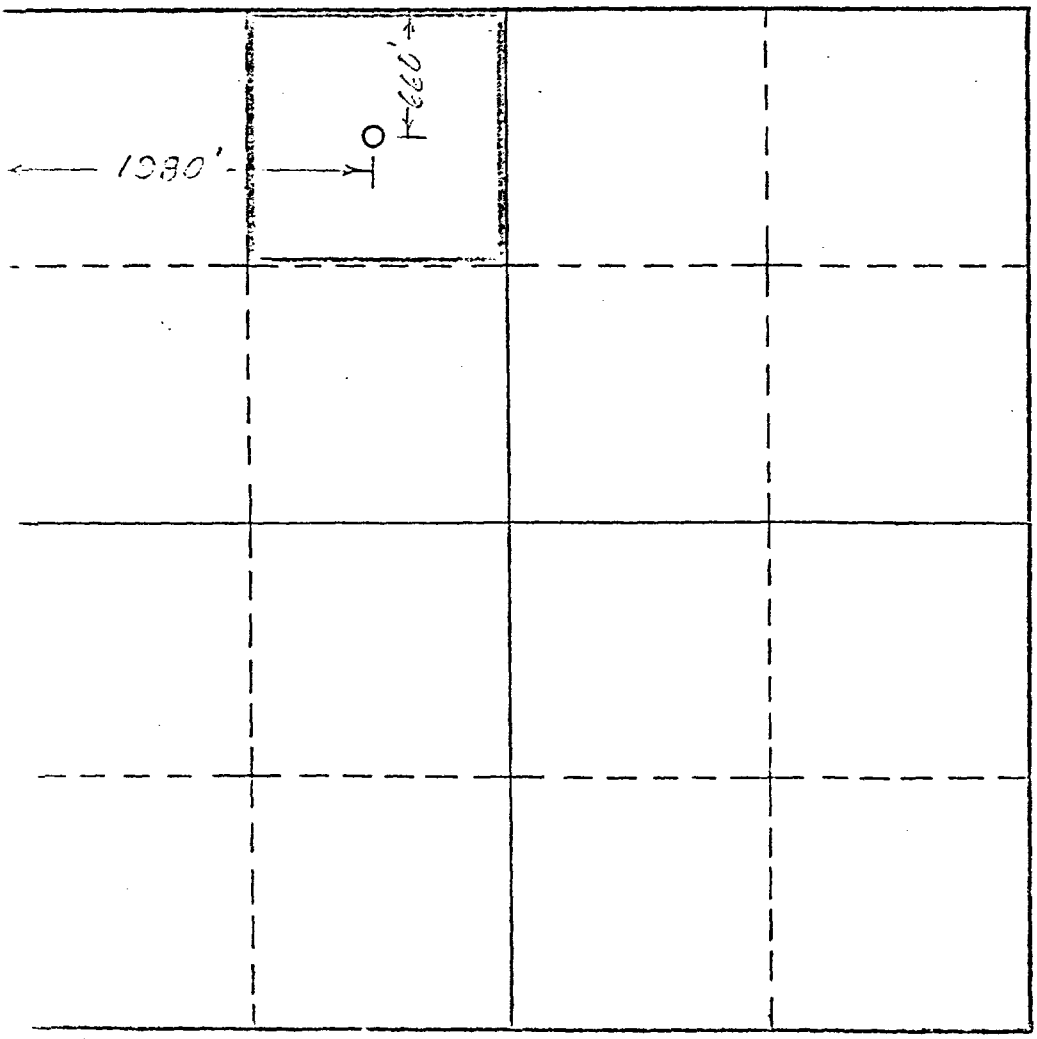
County Eddy G. L. Elevation not available Dedicated Acreage 40 Acres

Name of Producing Formation Devonian Pool Big Eddy Area (Wildcat)

1. Is the Operator the only owner* in the dedicated acreage outlined on the plat below?
   Yes _____ No X .
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes X No _____. If answer is "yes," Type of Consolidation Federal Unit
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

Section B



This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

Shell Oil Company
(Operator)

P. A. Dennis
(Representative)

Division Exploitation Eng.
Address

This is to certify that the well location shown on the plat in Section B 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 September 12, 1957

Registered Professional Engineer and/or Land Surveyor.

INSTRUCTIONS FOR COMPLETION:

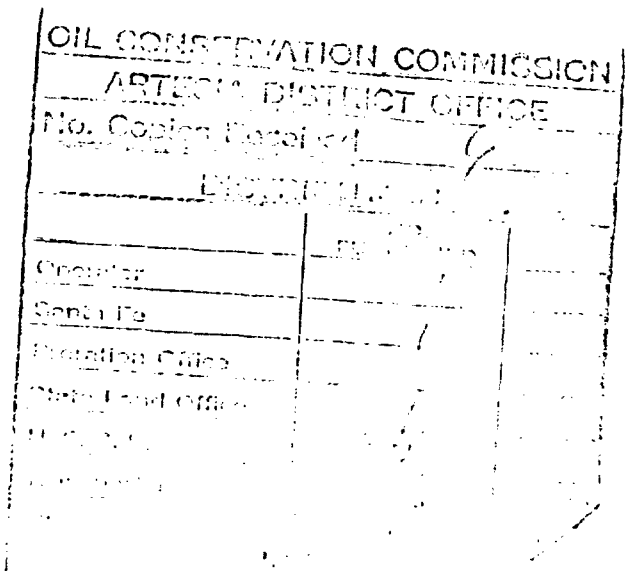
1. Operator shall furnish and certify to the information called for in Section A.

2. Operator shall outline the dedicated acreage for both oil and gas wells on the plat in Section B.

3. A registered professional engineer or land surveyor registered in the State of New Mexico or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.

4. All distances shown on the plat must be from the outer boundaries of Section.

5. If additional space is needed for listing owners and their respective interests as required in question 3, Section A, please use space below



* "Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1953 Comp.)