CAMPBELL & BLACK, P.A.

LAWYERS

JACK M. CAMPBELL
BRUCE D. BLACK
MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
J. SCOTT HALL
PETER N. IVES
JOHN H. BEMIS
MARTE D. LIGHTSTONE

GUADALUPE PLACE

SUITE I - 110 NORTH GUADALUPE

POST OFFICE BOX 2208

SANTA FE, NEW MEXICO 87504-2208

TELECOPIER: (505) 988-4421
, TELECOPIER: (505) 983-6043

April 22, 1987

RECEIVED

APR 23 1987

OIL CONSERVATION DIVISION

HAND DELIVERED

William J. LeMay, Director Oil Conservation Division State Land Office Building Santa Fe, New Mexico 87503

Re: Application of EP Operating Company for Water Disposal, Chaves County, New Mexico.

Dear Mr. LeMay:

Enclosed is the application of EP Operating Company in the above-referenced matter. EP Operating Company respectfully requests that this matter be placed before the Division for administrative approval.

Also enclosed are copies of notice letters, sent by certified mail, an Affidavit of Publication showing copy of published legal advertisement, and a letter of no objection to the application from the Commissioner of Public Lands.

If further information is needed for the consideration of this application, please let us know.

Very truly yours,

Trade Lightstone

MARTE LIGHTSTONE

ATTORNEY FOR EP OPERATING COMPANY

ML/ab

Enclosures

cc w/enclosures: Artesia Oil Conservation Division Field Office

Attention: Les Clements

OIL CONSERVATION DIVISION

POST OFFICE BOX 2008
STATE LAND OFFICE BUILDING
BANTA FE, NEW MEXICO 87501

FORM C-108 Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

ı.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Disposal of Storage
II.	Operator: EP Operating Company
	Address: 6 Desta Dr., Suite 5250, Midland, Texas 79705
	Contact party: Mr. Phillip Grice Phone: (915) 682-9756
111.	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 yes no yes no if yes, give the Division order number authorizing the project
٧.	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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.).
111.	Attach appropriate geological data on the injection zone including appropriate lithological 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.
х.	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.
III.	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: Luis Acevedo 1 1itle District Petroleum Engineer
	Signature: Date: 4287
subm.	ne information required under Sections VI, VIII, X, and XI above has been previously itted, it need not be duplicated and resubmitted. Please show the date and circumstance be earlier submittal.

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 zonc 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.

State of New Mexico





APR 15 1887

Commissioner of Public Lands
April 14, 1987

P.O. 80X 1148 SANTA FE, NEW MEXICO 87504-1148

Campbell & B:lack Attorneys At Law P. O. Box 2208 Santa Fe, New Mexico 87504-2208

> Re: J. G. O'brien Well No. 3 located 1980 feet from the North line, 1830 feet from the West line, Section 7, T-7S, R-29E, Chaves County, New Mexico.

Attn: Marte Lightstone

Gentlemen:

Inasmuch as the above well is located on non-state owned lands, we have no objections as to it's conversion at this time.

If we may be of further assistance, please do not hesitate to call on us.

Very truly yours,

W. R. Humphries Commissioner of Public Lands

By: Floyd O. Prando, Director Cil and Gas Division A/C 505-827-5744

WRH:FOP:cw

CAMPBELL & BLACK, P.A.

LAWYERS

JACK M CAMPBELL

BRUCE D. BLACK
MICHAEL B CAMPBELL

WILLIAM F CARR

BRADFORD C. BERGE

J. SCOTT HALL

PETER N. IVES

JOHN H. BEMIS

GUADALUPE PLACE
SUITE : - NO NORTH GUADALUPE
POST OFFICE BOX 2206
SANTA FE, NEW MEXICO 87504-2208

TELECOP:ER: (505) 988-4421
TELECOP:ER: (505) 983-6043

April 8, 1987

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Frates Seeligson 1604 National Bank of Commerce Building San Antonio, Texas 78205

Re: Application of E P Operating Company for Water Disposal,
Chaves County, New Mexico.

Dear Sir:

This letter is to advise you that E P Operating Company will file an application with the New Mexico Oil Conservation Division seeking administrative approval of water disposal into the J. G. O'Brien Well No. 3 located 1980 feet from the North line, 1830 feet from the West line, Section 7 South, Range 29 East, N.M.P.M., Chaves County, New Mexico. A copy of the application is enclosed for your information.

This application is for administrative approval. Any objections or requests for hearing must be filed with the Oil Conservation Division, Post Office Box 2088, Santa Fe, New Mexico 87504, within fifteen (15) days from the date this application was mailed.

Very truly yours,

MARTE LIGHTSTONE

Marte Lightstore

ATTORNEY FOR E P OPERATING COMPANY

ML/ab Enclosures

P 331 613 212

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

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3811, Feb. 1986	Constitution Application (\$87)	5. Signature – Addressee X	San Antonio, Texas	g o	Show to whom delivered, date, and duch associated as 3. Article Addressed to:	SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person card from being returned to you. The return receipt fee will provide you the name of the person card from the following services are available. Consult delivered to and the date of delivery. Postmaster for fees and check box(es) for additional service(s) requested.
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CAMPBELL & BLACK, P.A.

JACK M. CAMPBELL
BRUCE D. BLACK
MICHAEL B. CAMPBELL
WILLIAM F. CAPR
BRADFORD C. BERGE
J. SCOTT HALL
PETER N. IVES
JOHN H. BEMIS

GUADALUPE PLACE
SUITE I - IIC NORTH GUADALUPE
POST OFFICE BOX 2208

SANTA FE. NEW MEXICO 87504-2208
TELEPHONE. (505) 988-4421
TELECOPIER: (505) 983-6043

April 8, 1987

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Sun Exploration and Production Company Post Office Box 2880 Campbell Centre Dallas, Texas 75221

Attention: Joint Operations

Re: Application of E P Operating Company

for Water Disposal,

Chaves County, New Mexico.

Gentlemen:

This letter is to advise you that E P Operating Company will file an application with the New Mexico Oil Conservation Division seeking administrative approval of water disposal into the J. G. O'Brien Well No. 3 located 1980 feet from the North line, 1830 feet from the West line, Section 7 South, Range 29 East, N.M.P.M., Chaves County, New Mexico. A copy of the application is enclosed for your information.

This application is for administrative approval. Any objections or requests for hearing must be filed with the Oil Conservation Division, Post Office Box 2088, Santa Fe, New Mexico 87504, within fifteen (15) days from the date this application was mailed.

Very truly yours,

Marte Lightone

MARTE LIGHTSTONE

ATTORNEY FOR E P OPERATING COMPANY

ML/ab Enclosures

P 331 613 211 RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See Reverse)

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CAMPBELL & BLACK, P.A.

LAWYERS

JACK M CAMPBELL

BRUCE D. BLACK
MICHAEL B CAMPBELL

WILLIAM F CARR
BRADFORD C. BERGE

J SCOTT HALL

PETER N. IVES

JOHN H BEMIS

GUADALUPE PLACE
SUITE I - 110 NORTH GUADALUPE
POST OFFICE BOX 220B

SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

April 8, 1987

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Stevens Oil Co. 400 North Penn Roswell, New Mexico 88201

Re: Application of E P Operating Company
for Water Disposal,

Chaves County, New Mexico.

Gentlemen:

This letter is to advise you that E P Operating Company will file an application with the New Mexico Oil Conservation Division seeking administrative approval of water disposal into the J. G. O'Brien Well No. 3 located 1980 feet from the North line, 1830 feet from the West line, Section 7 South, Range 29 East, N.M.P.M., Chaves County, New Mexico. A copy of the application is enclosed for your information.

This application is for administrative approval. Any objections or requests for hearing must be filed with the Oil Conservation Division, Post Office Box 2088, Santa Fe, New Mexico 87504, within fifteen (15) days from the date this application was mailed.

Very truly yours,

Marte Lightstone

MARTE LIGHTSTONE

ATTORNEY FOR E P OPERATING COMPANY

ML/ab Enclosures

P 331 613 210

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See Payerse)

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SENDER: Complete Items 1 and 2 when additional services are desired, and complete Items 3 and 4. card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult ostmaster for fees and check box(es) for additional service(s) requested. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this Always obtain signature of addressee or Insured COD 2.

Restricted Delivery. agent and DATE DELIVERED. 8. Addressee's Address (ONLY requested and fee paid) Type of Service 4. Article Number Registered
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Express Mail P 331 Show to whom delivered, date, and addressee's address. 88201 Stevens Oil Co. 400 North Penn Roswell, NM Article Addressed to: ature - Addressee '811, Feb. 1986 iture - Agen of Dulivery

DOMESTIC RETURN RECEIPT

CAMPBELL & BLACK, P.A.

LAWYERS

JACK M. CAMPBELL
BRUCE D. BLACK
MICHAEL B CAMPBELL
WILLIAM F CARR
BRADFORD C. BERGE
J. SCOTT HALL
PETER N. IVES
JOHN H. BEMIS

GUADALUPE PLACE
SUITE I - 110 NORTH GUADALUPE
POST OFFICE BOX 2208

SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

April 8, 1987

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Moon Company Trustee Post Office Box 9598 Amarillo, Texas 79105

Re: Application of E P Operating Company

for Water Disposal,

Chaves County, New Mexico.

Gentlemen:

This letter is to advise you that E P Operating Company will file an application with the New Mexico Oil Conservation Division seeking administrative approval of water disposal into the J. G. O'Brien Well No. 3 located 1980 feet from the North line, 1830 feet from the West line, Section 7 South, Range 29 East, N.M.P.M., Chaves County, New Mexico. A copy of the application is enclosed for your information.

This application is for administrative approval. Any objections or requests for hearing must be filed with the Oil Conservation Division, Post Office Box 2088, Santa Fe, New Mexico 87504, within fifteen (15) days from the date this application was mailed.

Very truly yours,

Marte Rightstone

MARTE LIGHTSTONE

ATTORNEY FOR E P OPERATING COMPANY

ML/ab Enclosures

P 331 613 209

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

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CAMPBELL & BLACK, P.A.

LAWYERS

JACK M CAMPBELL

BRUCE D BLACK
MICHAEL B. CAMPBELL

WILLIAM F CARR
BRADFORD C BERGE

J. SCOTT HALL

PETER N IVES

JOHN H BEMIS

GUADALUPE PLACE

SUITE 1 - 110 NORTH GUADALUPE

POST OFFICE BOX 2208

SANTA FE. NEW MEXICO 87504-2208

TELEPHONE: (505) 968-4421

TELECOPIER: (505) 983-6043

April 8, 1987

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Commissioner of Public Lands Post Office Box 1148 Santa Fe, New Mexico 87504-1148

Re: Application of E P Operating Company for Water Disposal, Chaves County, New Mexico.

Dear Sir:

This letter is to advise you that E P Operating Company will file an application with the New Mexico Oil Conservation Division seeking administrative approval of water disposal into the J. G. O'Brien Well No. 3 located 1980 feet from the North line, 1830 feet from the West line, Section 7 South, Range 29 East, N.M.P.M., Chaves County, New Mexico. A copy of the application is enclosed for your information.

This application is for administrative approval. Any objections or requests for hearing must be filed with the Oil Conservation Division, Post Office Box 2088, Santa Fe, New Mexico 87504, within fifteen (15) days from the date this application was mailed.

Very truly yours,

Marte dightstone

MARTE LIGHTSTONE

ATTORNEY FOR E P OPERATING COMPANY

ML/ab Enclosures

P 331 613 208

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See Reverse)

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3. Article Addressed to:		4. Article Number
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MIDLAI TEXAS / FARMINGTON, NEW MEXICO GRAND JUNCTION, COLORADO

P. O. Box 5247 Midland, Texas 79704 (915) 682-5574

RECEIVED

SEP 06 1985

September 5, 1985

Midland Production

E. P. Operating
P. O. Box 4815
Midland, Texas 79704

Attention: Leonard Kersh

Subject: Bottomhole Pressure Measurement

J. G. O'Brien No. 3 South Elkins Field

Chaves County, New Mexico Our File No. 3-17322-BU

Gentlemen:

Attached hereto are the results of a bottomhole pressure measurement which was conducted on the above captioned well September 3, 1985

The data presented are in tabular and graphical form.

It has been our pleasure to have conducted this service for you. If we may be of further assistance, please call us at any time.

Respectfully submitted,

D. a. Warren Sp

TEFTELLER, INC.

D. A. Warren, Jr.

Operations Manager

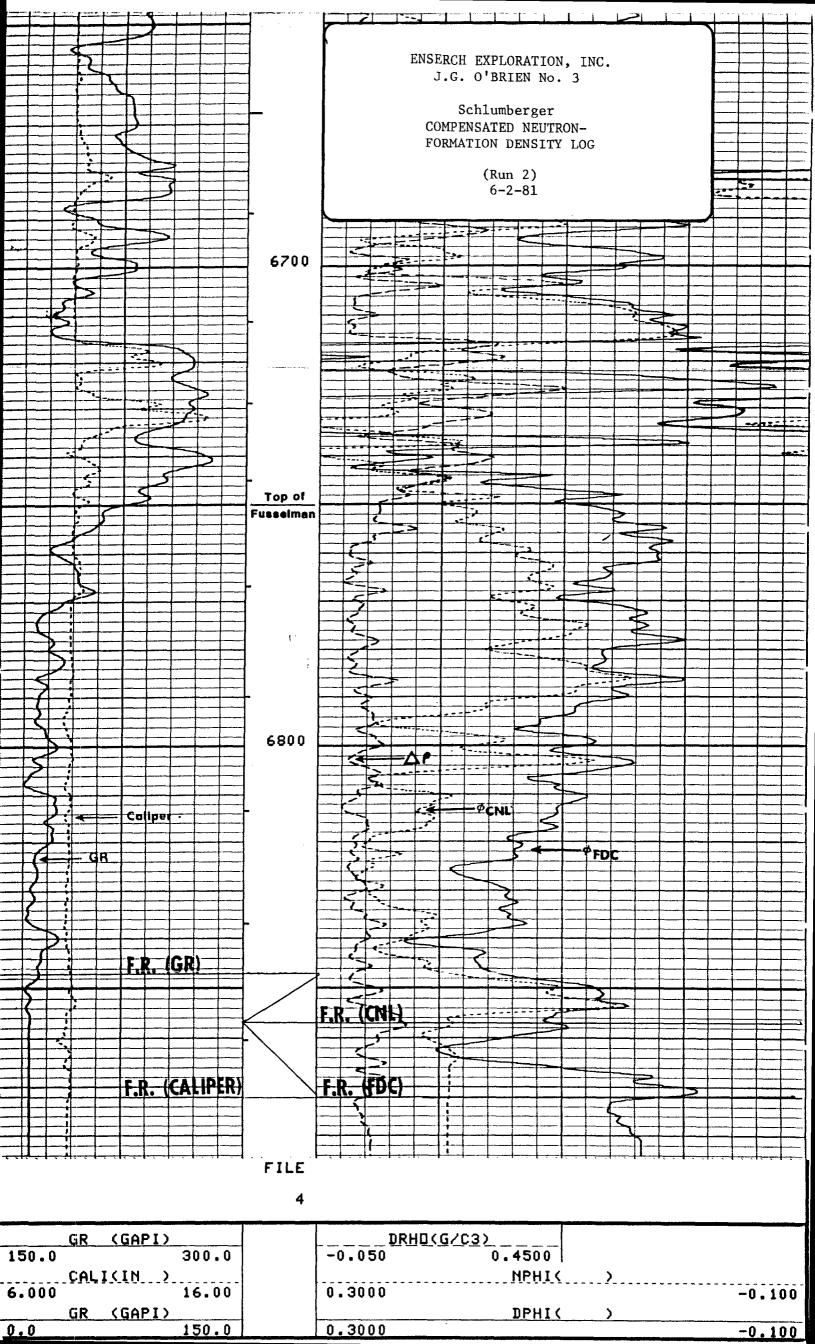
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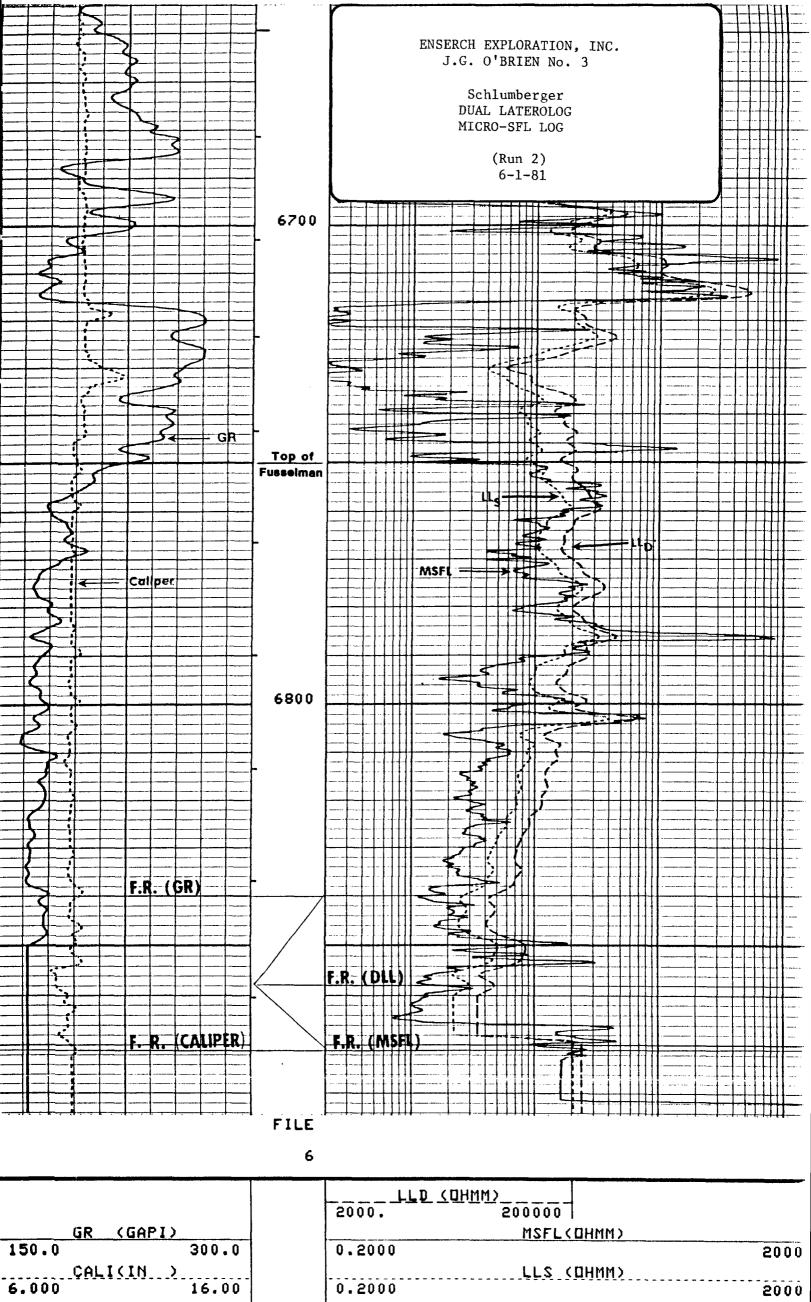


Page 1 of 1 File 3-17322-P

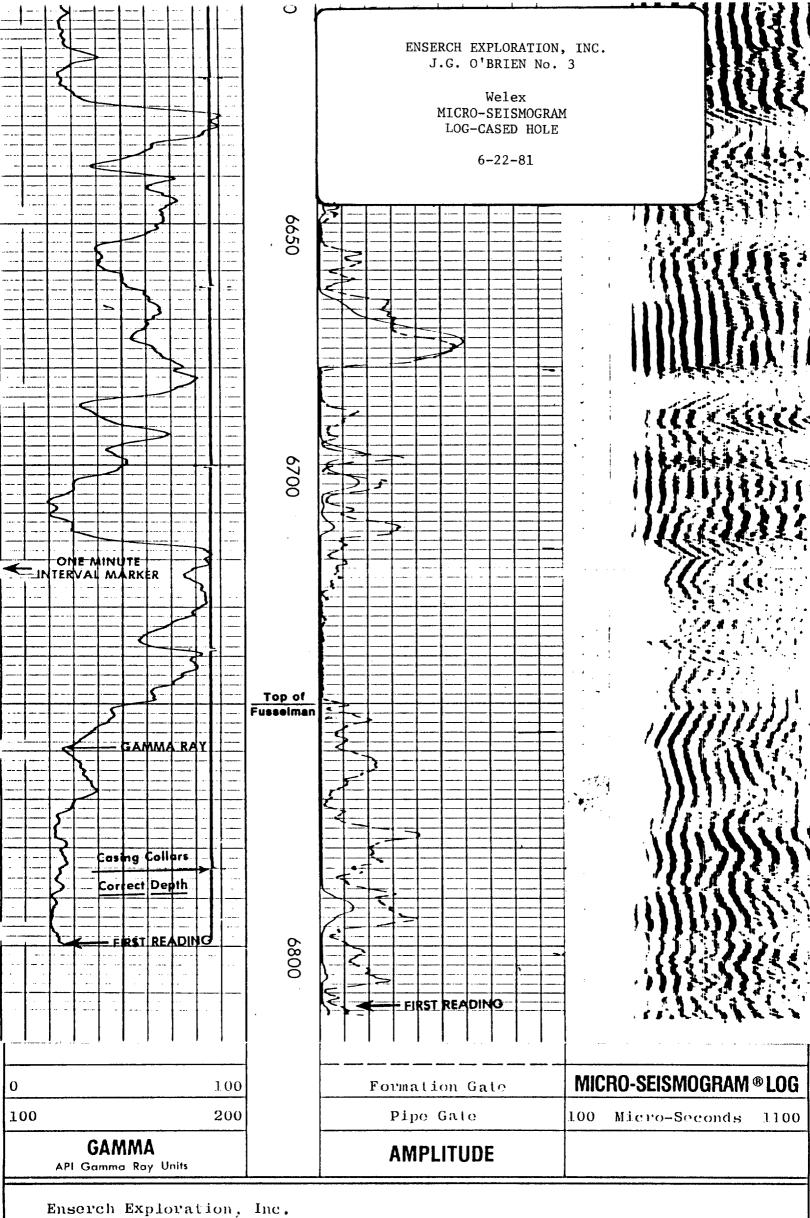
MIDLAND, TEXAS E. P. OPERATING COMPANY Lease J. G. O'BRIEN _ Well No. __ Company _ SOUTH ELKINS County CHAVES_ ____State _NEW_MEXICO Field . Test Date SEPTEMBER 3, 1985 **FUSSELMAN** Formation. Shut-in Status of Well **DEPTH PRESSURE** GRADIENT Feet Psig Psi/Ft. 2400 15 15 15 0.000 500 15 0.000 1000 2000 320 0.305 3000 769 0.449 4000 1217 0.448 2100 5000 0.447 1664 2056 5881 0.445 6181 2188 0.440 6481 2320 0.440 6781* 2452 0.440 1800 Datum Pressure Psig 1500 1200 90Œ Elev. 4009.4 GL Datum Total Depth Perf. 6778-6784 Ft. Tubing2 3/8 in. to 6778 Ft. Casing 5 1/2 6872 Ft. in. to Casing Press. Pkr. Tubing Press. 15 Oil Level Nil Water Level 1331 Temperature 133 °F @ 6781 Ft. Element No.50663 0-4000 Range Last Test Date Pressure Last Test Date Psig B.H.P. Change 6000 7000 1000 2000 3000 40b0 5000

DEPTH: FEET





6.000 16.00 0.2000 2000 GR (GAPI) LLD (DHMM)
0.0 150.0 0.2000 2000



Enserch Exploration, Inc. J. G. O'Brien = 3 South Elkins Field Chaves County, New Mexico

T.D. LOGGED 6816'
T.D. DRILLER 6825'
T.D. WELEX 6824'

ENSERCH EXPLORATION, INC.

NO. 3 J.G. O'BRIEN

S. ELKINS FUSSELMAN FIELD

CHAVES COUNTY, NEW MEXICO

CORE LABORATORIES, INC.



June 29, 1981

ENSERCH EXPLORATION, INC. P.O. Box 4815 Midland, Texas 79704

File : 3202-12369

Subject: Core Analysis No. 3 J.G. O'Brien

> S. Elkins Fusselman Field Chaves County, New Mexico

Gentlemen:

The subject well was cored using diamond coring equipment and salt base mud to obtain 44 inch diameter cores from 6765 to 6777 feet from the Fusselman/Montoya formation.

Core analysis data is presented in tabular and graphical form for your convenience. A porosity vs. permeability plot and porosity and permeability histograms were prepared for statistical evalutaion.

We trust these data will be useful in the evaluation of your property and thank you for the opportunity of serving you.

Very truly yours,

CORE LABORATORIES, INC.

Jack H. Neff

Laboratory Manager

JHN/DO/yn

ENSERCH EXPLORATION, INC. No. 3 J.G. O'Brien File No. 3202-12359 Procedural Page

The cores were preserved at the wellsite in a CO₂ atmosphere and transported to Midland by Core Laboratories, Inc. personnel.²

A Core Gamma Log was recorded for downhole E-log correlation.

One set of core chips was taken.

One preserved fresh core sample was taken.

Core analysis was made from intervals requested on full diameter samples.

Fluid removal and fluid saturations were determined using controlled temperature vacuum retort techniques.

Gas expansion porosity and grain density were determined using Boyle's Law.

Air permeability was measured in two horizontal directions and vertically while the core was held in a Hassler rubber sleeve.

The core was slabbed and boxed after the analysis and remains at our Midland Lab as we await further disposition instructions.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

CORE ANALYSIS REPORT

FOR

ENSERCH EXPLORATION, INC.

NO. 3 J. G. O'BRIEN S. ELKINS FUSSELMAN FIELD CHAVES COUNTY, NEW MEXICO These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC. Petroleum Reservoir Engineering

DALLAS, TEXAS

NG. 3 J. G. O'BRIEN S. ELKINS FUSSELMAN FIELD ENSERCH EXPLORATION, INC.

CHAUES COUNTY, NEW MEXICO

: 5-31-81 : FUSSELMAN/MONTOYA DRUG. FLUID: SALT BASE MUD FORMATION

LABORATORY: MIDLAND TEXAS 3202-12359 # REINHEIMER ANAL YSTS FILE NU

31, T-7-S, R-29-E : 1980' FNL & 1830' FUL, SEC. LOCATION

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	FERM MAXIMUM	РЕКМ 90 DEG	PERH VERTICAL	H C	OILX WTRX PORE PORE	GRAIN DEN	DESCRIPTION
	CORE NO. 1 6	6765.0-6795.0	cur 30'	/ REC 12/				
,	6765.0-66.0	0.15			Ŋ Ċ	0.0	~	DOL CHTY OF BREC
CI	67	0.76	0.51	1. 10.	11,4	14.5		SL/CHTY
מו		06.0	0.38	0.75	φ •	11.7		SL/CHTY
4			0.87	0.04	\$. 5.	4.0	2.78	CHITY BE
_{ፈጋ}			0.07	0.05	7.7	8.7	•	DOL SL/F CHTY BREC
9			0.04	0 · 0	6.9	16.4		CHTY BREC
~			<0.01	<0.01	1.0	5.4		F.
ω			0.04	90.0	m w	o,	(1 (년 (년	STY
5	6773.0-74.0		80.0	0 + 13	တ		5. 5. 1.0.	SLZCHTY
		ċ		80.0	กว เฉ	8.9 78.9	(4 (4 (4	DOL SL/CHTY BREC
**		80.0		0.04	11.0	28.9	2.84	SLZCHTY
12		0.04	40.0	0.04	44.	0.00 4.4	(4 0)	

>-

^{*} INDICATES PLUG PERMEABILITY

Petrolcum Reservoir Engineering

LITHOLOGICAL ABBRENIATIONS

LIMESTONE, LIM	PEDIUM GEAINED	PATRIX	INTERVAL NOT AMALYZED	(AT REQUEST OF CLIENT)	NODULE, NODULER	OOLITIC	PISOLITIC	PINPOINT -POROSITY	PARTING	PYRITE, PYRITIC	SANDSTONE, SANDY	SHALE, SHALY	SOLID HYDROCARSON RESIDUE	SLIGHTLY	SILT, SILTY	STYLOLITE, STYLOLITIC	SUCROSIC	SULPHUR	TOO BROKEN FOR ANALYSIS	TAIPOLITE	VERY	PREDOMINATIN VERTICALLY FRACTURED	VUGULAR	CROSSEEDDED	MEDIUM CHYSTALLINE	CHISTAL
LK(Y)	NG MG	KTX	NA		NOD	100	PISO	귭	Pī	PYR	SD(Y)	SH(X)	SHR	Sr/	SLT(Y)	SIX	SUC	SUL	TBFA	TRIP	//	٧٣	^	XBD	XLN	XII
ANHYDRITE, ANHYDRITIC	ARKOSE, ARKOSIC	BAND, BANDED	BRECCIA, BRECCIATED	CALCITE, CALCAREOUS	CARBONACEOUS	COARSE GRAINED	CHALK, CHALKY	CHERT, CHERTY	CONGLOYERATE, CONGLOYERITIC	COARSELY CRYSTALLINE	DENSE	DOLOMITE, DOLOMITIC	RAMDOMLY ORIENTED FRACTURES	FINE GRAINED	FOSSILIFEROUS	FRIABLE	FINELY CRYSTALLINE	GALENA	GLAUCONITE, GLAUCONITIC	GRANTIB	GYPSUM, CYPSIFEROUS	PRELOWINAWILY HORIZOWIALLY FRACTURES	INCLUSION	INTERBEDED	LAWINGTED	
AMH(Y)	A.R.K	RFG	BREC	CALC	CARB	బ్ర	CHK(Y)	CHT(Y)	COLCL	CXLN	DXS	DOL(C)	ja,	FG	FOSS	FR	FXLN	Cal	CLAUC	GPAN	CUP	:::	INC	CHIMI	LAK	

THE FIRST WORD IN THE DESCRIPTION COULD OF THE CORE ANALYSIS REPORT DESCRIBES THE FOCK TYPE: FOLLOWING ARE ROOK MODIFIERS IN DECREASING ABUNDANCE AND MISCELLANEOUS DESCRIPTIVE TURKS.

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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

	COMPANY _	COMPANYENSERCH EXPLORATION, INC.	FILE NO.	FILE NO. 3202-12359
	WELL	WELL NO. 3 J. G. O'BRIEN	DATE	DATE 5-31-81
•	FIELD	ELKINS FUSSELMAN FIELD FORMATION FUSSELMAN/MONTOYA	ELEV.	4009' GL
	COUNTY	AVES COUNTY STATE NEW MEXICO	CORES ACC	ACC
	LOCATION	LOCATION 1980' FNL & 1830' FWL, SEC. 31, T-7-S, R-29-E		

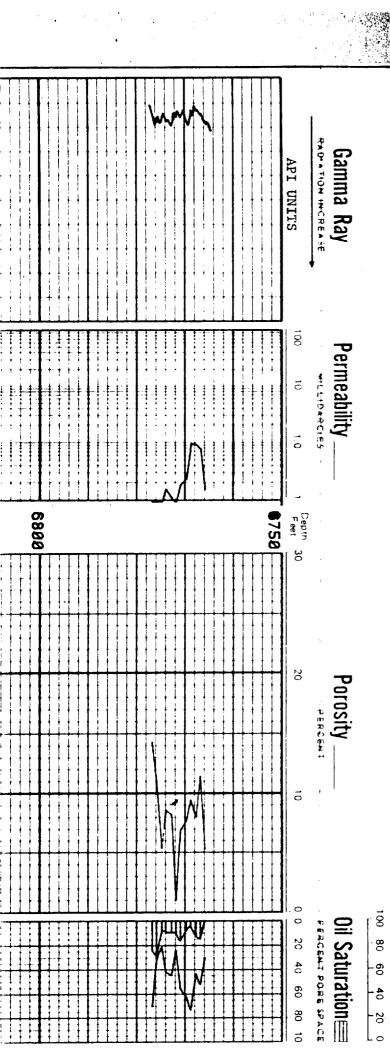
CORRELATION COREGRAPH

Intere analyses, commons or interpretations are based on oblers/alicins and material supplied by the client to whome and in amobie exclusive and construction at this report is made in the client to whome and investors to made in the best judgment of local Laborator estimated in a client and entropy or consistence as excepted in building the aboratories, inc., and its officers and entities arross for consistence as excepted in building the aboratories, inc., and its officers and entities, absume not esponsibility and make not warranty or representations as to the productivity, proper observation, or provide lenses of any including on the mineral western additional materials.

VERTICAL SCALE: 5" 1

PERCENT PORE SPACE

Total Water_



INJECTION WELL DATA SHEET

EP Operating Company	J. G. O'Brien
OPERATOR	LEASE
3 1980' FNL & 1830'	
WELL NO. FOOTAGE LOCATION	ON UNIT LETTER SECTION TOWNSHIP RANGE
<u>Schematic</u>	Tubular Data
	Surface Casing 386 feet
13-3/6" at 300"	Size 13-3/8 " Cemented with 520 sx.
	TOC surface feet determined by circulated 12
	Hole size17-1/2"
9-5/8° p1 2,741'	Intermediate Casing 2,741 feet
	Size 9-5/8 " Cemented with 1750 sx.
	TOC surface feet determined by circ. 668 sx.
	Hole size 12-1/4"
TOC: 2,780'	Long String 6,872 feet
7/	1st stage: 315 Size 5-1/2 " Cemented with 2nd: 400 sx.
	1st stage: 5730 TOC 2nd stage: 2780feet determined by cement bond 1c
	Hole size 8-3/4"
	Total Depth 6,872'
	Injection interval
70C: 5,730'	6,762 feet to 6,784 feet
Pecker at 6,726' Coment Retainer at	(perforated \$\psi / \psi \psi \psi \psi \psi \psi \psi \psi
6-1/2" et 6,872"	
Tubing size 2-3/8" lin	ned with plastic set in a
	(material)
Baker Model R 5-1/2" (brand and model	packer at 6,725 feet
(or describe any other casing	g-tubing seal).
Other Data	
1. Name of the injection for	cmation Fusselman
2. Name of Field or Pool (i	f applicable) South Elkins Fusselman (oil) pool
3. Is this a new well drille	ed for injection? $/\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$
If no, for what purpose	was the well originally drilled? Development:
producing oilwell.	
	erforated in any other zone(s)? List all such perfora- lugging detail (sacks of cement or bridge plug(s) used)
6804 to 6810 feet; 6820	feet. CIBP at 6800 feet.
6794 to 6797 feet - ceme	nt retainer at 6790 and squeezed w/43 sx.
(pools) in this area. $\underline{ ext{Ch}}$	me of any overlying and/or underlying oil or gas zones aves Undes. Pennsylvanian (Gas) pool. Uphole 30 feet 11's Eye San Andres. Uphole 3650 feet

Well Location:

Unit Letter E

Footage Location 1980' FNL & 660' FWL

Section 31, Township 7-S, Range 29-E

Well Name:

J.G. O'Brien No. 1

Operator Name:

EP Operating Company

(Formerly Enserch Exploration, Inc.)

Spud Date:

4-28-80 Date TD Reached: 5-23-80

Completion Date:

6-11-80

Total Depth:

6,791 feet

Well Type:

Oil

Completion Formation: Fusselman

Field Name:

South Elkins Fusselman (Oil) pool

Current Status:

Producing from perforations at 6,708 to 6,716 feet (16 holes)

WELL DATA SHEET

EP Operati	ing Company	J.G. 0'	Brien		11
OPERATOR		L	EASE		WELL NO.
E	1980' FNL &	660' FWL	31	7-s	29-E
UNIT LETTER	FOOTAGE LOCAT	ION	SECTION	TOWNSHIP	RANGE

Schematic

							Tubu	lar Data		
	1	1			Surface Cas	ing				
04 03				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Size 13-3	/8 '	•	Cemented with	450	sx.
(o)				000	TOC Surf	ace	feet	determined by	circula	ated
)05 00				0 }	Hole size	17_1	/211		110 s	3X.
000 000 000 000 000 000 000 000 000 00										
(%) (%) (%) (%) (%) (%) (%) (%) (%) (%)				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Intermediate Size 9-5			Cemented with	1300	sx.
\o^\ \o^\ \o^\ \o^\				οοί •Δ! •Δ!	TOC Surf	ace	feet	determined by	circu!	lated
56-	-		į	2,792	Hole size	12-1/	/ ₄ ''		160	sx.
					Long String					
•	}		{		Size 5-1.	/2 "	•	Cemented with	500	sx.
	{		{		TOC 5,84	40	feet	determined by		
	$\{ \mid \mid \mid$		}		Hole size			٠,		
	}		}		Total Depth					
	}		}	TOC: 5,840'		Fusselm	ıan Pe	erforations: 716' (34 holes)	
	()A		00000	. 00. 0,040		Acidize	ed:	745' (5 holes) 100 gals. 7½% l k w/CIBP at 6,		
	\o_0		\$ 4 }		er at 6,661'			_		
			30}	/ /	8" Tubing w/Gun A		6,71	6′		
P.B.T.D. 6,779'——	() () () () () () () () () ()		οΔ Δ('.D. (TOC) at 6,72	।उ				
T.D	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	O-	00		P. at 6,735'					
1.0.	(° - ~ ~ ~	25000	~~≀	5-1/	2" at 6,791'					

Well Location: Unit Letter H

Footage Location 660' FEL & 2206' FNL Section 36, Township 7-S, Range 28-E

Well Name: State 1-36 No. 1

(Formerly G.A.O. State No. 1)

Operator Name: Phillips Petroleum Company

(Formerly General American Oil Company

of Texas)

Spud Date: 8-22-80 Date TD Reached: 9-25-80

Completion Date: 9-29-80

Total Depth: 7,060 feet

Well Type: Gas

Completion Formation: Pennsylvanian

Field Name: Chaves Undes Pennsylvanian (Gas) pool

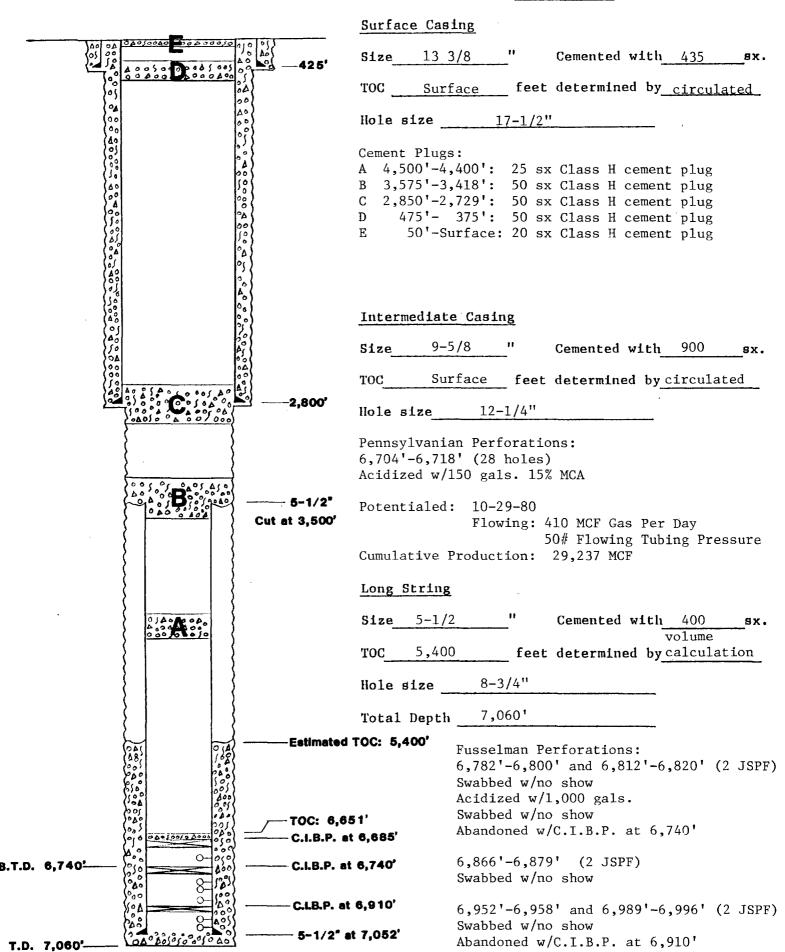
Current Status: Plugged and Abandoned 11-9-85

WELL DATA SHEET

Phillips Petr	oleum Company	State 1-36	A.O. State)	1	
OPERATOR		LEAS	SE		WELL NO.
Н	660' FEL & 2206'	FNL	36	7-S	28-Е
UNIT LETTER	FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE

Schematic

Tubular Data



Well Location:

Unit Letter L

Footage Location 2130' FSL & 660' FWL

Section 31, Township 7-S, Range 29-E

Well Name:

J. G. O'Brien No. 4

Operator Name:

EP Operating Company

(Formerly Enserch Exploration, Inc.)

Spud Date:

1-27-82 Date TD Reached: 3-13-82

Completion Date:

5-4-82

Total Depth:

6,950 feet

Well Type:

Gas

Completion Formation: Pennsylvanian

Field Name:

Chaves Undes Pennsylvanian (Gas) pool

Current Status:

months of the between should have between contraction should be with the plant of the between the should be the sh

WELL DATA SHEET

EP Operating	g Company	J.G. O'Brien		4
OPERATOR		LEASE		WELL NO.
L	2130' FSL & 660' FWL	31	7-s	29-E
UNIT LETTER	FOOTAGE LOCATION	SECTION	N TOWNSHIP	RANGE

Schematic

		<u>Tubul</u>	lar Data	
	Surface Casin Size 13-3/8 TOC surface Hole size	e feet	Cemented with_ determined by_	
0	Intermediate	<u>Casing</u>		1170
2,7	Size 9-5/8 TOC surfact **B5' Hole size		Cemented with determined by o	1170 sx.
	Long String Size 5-1/2	11	Cemented with	675
	TOC 5286 Hole size	feet		Cement Bond Log
$\begin{cases} \lambda^{\circ} \\ \lambda^{\circ} \\ \lambda^{\circ} \end{cases} \qquad \qquad \begin{cases} \lambda^{\circ} \\ \lambda^{\circ} \\ \lambda^{\circ} \end{cases} \qquad \qquad \qquad \frac{100: 5,28}{100}$		6,950'		
		6,761' - 6 Acidized: Re-acidize Frac: 40,	nian Perforation 5,768' (16 1 2000 gals 15% ed: 8000 gals 1 ,000 gals acid g	holes) NeFe 15% HC1 gel w/
$\begin{cases} A_0 \\ 0 \\ 0 \\ 0 \end{cases} \qquad \qquad$	-3/8" Tubing to 6,644' B.T.D. (TOC) at 6,836'		Perforations: 384' (14 holes	s)
P.B.T.D. (% 6465747007 64) ———————————————————————————————————	LB.P. at 6,850'	Swabbed wa		
5- 5- 6 A A (0 S O A O S O S O S O S O S O S O S O S O	1/2" at 6,949'			

Proposed Operations

1. Fluid to be injected at:

Average Daily Rate: 200 bbls./day

Maximum Daily Rate: 350 bbls./day

- 2. The system is a closed system.
- 3. Injection Pressure:

Average: 200 psig

Maximum: 1300 psig

4. The fluid is produced Fusselman water from the EP and 5. Operating Company - J.G. O'Brien No. 1 well. The produced water will be reinjected into the Fusselman down-dip in the EP Operating Company - J.G. O'Brien No. 3 well. Fusselman water analysis indicates total dissolved solids of 66,881 mg. per liter.

Martin Water Laboratories. Inc

709 W. INDIANA MIDLAND, TEXAS 79701

781155 MEN EIVEN

RESULT OF WATER ANALYSES

LABORATORY NO. SAMPLE RECEIVED RESULTS REPORT FASE J. G. O'Bri Vildcat Chaves Brien #3. 7-11-8 CAL PROPERTIES 1 NO. 2	en New Me	JUL 2 1 1981
RESULTS REPORT	en MIDI STATE New Me	LAND FRODUCT
Wildcat Chaves Brien #3. 7-11-8 man CAL PROPERTIES	en STATE New Me	LAND FRODUCT
Wildcat Chaves Brien #3. 7-11-8 man CAL PROPERTIES	STATE New Me	
Chaves Brien #3. 7-11-8	STATE New Me	
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nan CAL PROPERTIES		
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Iligrams Per Liter		
show no signific	cant change i	n the water
81 and reported	on analysis #	681331.
	· · · · · · · · · · · · · · · · · · ·	
		
		
	0.124. illigrams Per Liter show no signification of the state of the s	. 124

Form No. 3

Waylan C. Martin, M. A.

Geologic Name: Fusselman

Thickness of Fusselman: Est. 300'

Thickness of injection zone: 24'

Depth of injection zone: 6,762' to 6,784'

Lithologic detail: A light grey, fractured, sucrosic dolomite with intercrystalline porosity.

Overlying zones with sources of drinking water:

Alluvium formation (Quaternary Period) down to 140'. Chinle formation (Upper Triassic Period) 140' to less than 180'.

Proposed Stimulation

If the perforations fail to take the injected water within the limits of the planned operations, perforations will be acidized with 1500 gallons of 15% HCl NEFE at a rate of $2-3\,$ BPM, with surface treating pressures not to exceed 1200 psig.

The following are included as part of Attachment X:

Open Hole Logs:

Schlumberger - Compensated Neutron - Formation Density
Run 2
6-2-81
TD - 6,648'

- Dual Laterlog Micro-SFL Run 2 6-1-81 TD - 6,654'

Cased Hole Logs:

Welex - Micro-Seismogram Log
Run 1
6-22-81
PBTD - 6,606'

Core Analysis:

Core Laboratories, Inc. - 6,765' to 6,777'

Bottomhole Pressure Measurement:

Tefteller, Inc. - 9-5-85

No freshwater wells are known to exist within a one mile radius of the proposed injection well. Surface owner currently trucks in freshwater for this property, when needed.

A review of all current and available geologic and engineering data indicates that there is no evidence of any open faults or any connection between the disposal zone and any underground sources of drinking water. If there were any connections or open faults, hydrocarbons could not be entrapped in the South Elkins Fusselman Field at a depth of 6,700' to 6,800'. As far as the wellbore is concerned, all known sources of drinking water are sealed off with surface casing and cement circulated to surface in the EPOC No. 3 O'Brien well.

AFFIDAVIT OF PUBLICATION

County of Chaves

State of New Mexico,
I, Jean M. Pettit,
Manager
Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published once a week in the regular and entire issue of said paper and not in a supplement thereof for a period
ofonce
weeks
beginning with the issue dated13
<u>April</u> , 19.87
and ending with the issue dated13
April 19 87 Cler M. Pellic Manager
Sworn and subscribed to before me
this 13th day of
Maylon & Shaper Notary Public
My commission expires

Publish April 13, 1987

NOTICE

Application for Water Disposal to be injected into the J. G. O'Brien Well No. 3, 1980 feet form the North line, 1830 feet from the West line, Section 31, Township 7 South, Range 29 East, N.M.P.M., Chaves County, New Mexico.

Injection Formation: Fusselman

Depth of Injection Zone: 6,762 feet to 6,784 feet

Rate of Injection: 200 bbls/day average; 350 bbls/day maximum

Injection Pressure: 200 psig average; 1300 psig maximum

Applicant: E P Operating Company 6 Desta Drive, Suite 5250 Midland, Texas 79705

Contact Party: Phillip Grice (915) 682-9756

Interested parties must file objections or requests for hearing within fifteen (15) days with the Oil Conservation Division, P.O.Box 2088, Santa Fe, New Mexico 87504