# AE Order Number Banner

Application Number: pMSG2411454555

SWD-2608

BC & D OPERATING INC. [25670]

Returns bin transformented 239 2092409.0/Admin@ruterManagement/AdminOrders/Banner/pMSG2411454555

								Revised March 23, 2017
	RECEIVED:		REVIEWER:		TYPE:	APF	PNO:	
			NEW ME - Geolo 1220 South St	XICO OIL Dgical & E T. Francis [	CONSERVA ngineering Drive, Santo	ATION DIV ATION DIV Bureau Da Fe, NM	<b>VISION</b> - 87505	· · · · · · · · · · · · · · · · · · ·
			ADMINI	STRATIVE	APPLICATIO	ON CHEC	CKLIST	
		THIS CHECKLI	REGULATIONS WHIC	OR ALL ADMINIS CH REQUIRE PRC	DCESSING AT THE	DIVISION LEVE	EL IN SANTA FE	IVISION RULES AND
Ap	plicant:_	BC&D Oper	ating, Inc.					Number: <u>25670</u>
We	ll Name:	Javelina 11-2	26-37 SWD #1				API: <u>30</u>	-025-xxxxx
Poc	DI:	SWD; San Ar	idres					de: <u>96121</u>
1)	TYPE OF A. Loc B. Ch [1] [1]	APPLICATIC cation – Spc NSL eck one or Commingl DHC ] Injection –	DN: Check the acing Unit – Sin NS Ny for [1] or [1] ing – Storage CTB Disposal – Pre	ose which a nultaneou: Project area; ] _ Measure _ PLC _ essure Incre	apply for [A] s Dedication ) NSI ment ]PC 0 ease – Enha		NIT) SD DLM Recovery	
2)	NOTIFIC A. B. C. D. E. F. G. H. H.	ATION REQU Offset oper Royalty, ov Application Notification Notification Surface ow For all of the No notice r	UIRED TO: Che ators or lease erriding royalt n requires pub n and/or conc n and/or conc n and/or conc e above, proc equired	eck those v holders y owners, r lished notic current app current app	which apply. evenue ow ce proval by SLC proval by BLI cation or pul	ners M blication i	is attache	FOR OCD ONLY Notice Complete Application Content Complete d, and/or,
3)	<b>CERTIFIC</b> administ understo notificat	CATION: I he trative appr and that <b>no</b> ions are sub	ereby certify th oval is <b>accurd</b> <b>action</b> will be pmitted to the	nat the info nate and <b>co</b> taken on Division.	prmation sub <b>mplete</b> to th this applica	omitted w ne best of Ition until t	vith this ap f my know the require	plication for ledge. I also ed information and

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Ben Stone

Print or Type Name

2/21/2024 2/24/2024 Date

903-377-5696

Phone Number

ben@sosconsulting.us e-mail Address

Signature

Released to Imaging: 4/23/2024 3:13:56 PM

Oil & Gas Accounting - Regulatory Processing Assistance - Oil Field Technical Assistance

age 3 of 51

February 24, 2024

SOS Consulting, LLC

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Attn: Mr. Dylan Fuge, Director

*Re: Application of BC&D Operating, Inc. to drill, complete and otherwise permit for salt water disposal the Javelina 11-26-37 SWD #1, (API 30-025-xxxx) located in Section 11, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico.* 

Dear Mr. Fuge,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to permit for disposal the subject prospective well. By authorizing the proposed SWD, the applicant can service disposal needs for operators in the area.

BC& D Operating, Inc. seeks to optimize efficiency, both economically and operationally, of all its operations in southeast New Mexico. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

Published legal notice ran in the February 1, 2024, edition of the Hobbs News-Sun and offset operators and other affected parties have been notified individually. All required information and attachments are included for a complete Form C-108. The well is located on private/ fee land and minerals.

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

Ben Stone, Partner SOS Consulting, LLC Agent for BC&D Operating, Inc.

Cc: Application attachment and file

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

- I. PURPOSE: Salt Water Disposal and the application QUALIFIES for administrative approval.
- II. OPERATOR: BC&D Operating, Inc. ADDRESS: 2702 North Grimes, Ste.B, Hobbs, NM 88241 CONTACT PARTY: Agent: SOS Consulting, LLC – Ben Stone (936) 377-5696
- III. WELL DATA: All Well Data and Applicable Wellbore Diagrams and Packer Info are ATTACHED.
- IV. This is not an expansion of an existing project.
- V. A map is attached 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. A *Tabulation is ATTACHED* of data on all wells of public record within the area of review which penetrate the proposed injection zone. *There are 5 wells in the subject AOR which Penetrate the proposed San Andres interval.* The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail. *5 P&A wells penetrate, P&A diagrams are ATTACHED.*
- VII. The following data is ATTACHED 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. Appropriate geologic data on the injection zone is ATTACHED including appropriate lithologic detail, geologic 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 sources known to be immediately underlying the injection interval.
- IX. Stimulation program a conventional acid job of up to 15,000 gals. may be performed to clean and open the formation.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). Well logs will be filed upon completion of the well.
- \*XI. There are NO water wells within one mile of the proposed SWD well per OSE data.
- XII. An affirmative statement is ATTACHED that available geologic and engineering data has been examined and no evidence was found of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. "Proof of Notice" section on the next page of this form has been completed and ATTACHED. There are 4 offset lessees and/or operators within ONE mile plus Federal minerals all have been noticed. Location is PRIVATE (split estate).
- 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:	Ben Stone	TITLE: SOS Consulting, LLC agent for BC&D Operat	ing, Inc.		
SIGNATURE:	E.	Tana -	DATE:	2/24/2024	_
	270	Jone			

E-MAIL ADDRESS: ben@sosconsulting.us

\* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Page 2

FORM C-108 Revised June 10, 2003

#### FORM C-108 – APPLICATION FOR AUTHORIZATION TO INJECT (cont.)

#### III. WELL DATA – The following information and data is included (See ATTACHED Wellbore Schematic):

- 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 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 details on the sacks of cement or bridge plugs used to seal off such perforations.
  - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

#### XIV. PROOF OF NOTICE pursuant to the following criteria is ATTACHED.

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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, 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.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

### State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-XXXXX				<sup>2</sup> Pool Code 96121	2	<sup>3</sup> Pool Name SWD; San Andres					
<sup>4</sup> Property C	ode	<sup>5</sup> Property Name							<sup>6</sup> Well Number		
TBD		Javelina 11-26-37 SWD								1	
<sup>7</sup> OGRID N	0.				<sup>8</sup> Operator 1	Name				<sup>9</sup> Elevation	
25670				B	C&D Operatii	ng, Inc.				3007'	
	<sup>10</sup> Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County	
н	11	26S	37E		2390'	FNL	320'	FE	EL	Lea	
			п Bo	ttom Hol	le Location If	Different From	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County	
same											
<sup>12</sup> Dedicated Acres	13 Joint of	r Infill	Consolidation	Code <sup>15</sup> Or	rder No.						
n/a											

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16		1		<sup>17</sup> OPERATOR CERTIFICATION
				I hereby certify that the information contained herein is true and complete
				to the best of my knowledge and belief, and that this organization either
				owns a working interest or unleased mineral interest in the land including
				the proposed bottom hole location or has a right to drill this well at this
				location pursuant to a contract with an owner of such a mineral or working
				interest, or to a voluntary pooling agreement or a compulsory pooling
		2390'		order heretofore entered by the division.
				2/15/2024
				Signature Date
				Ben Stone
				Printed Name
				ben@sosconsulting.us
		C	320'	E-mail Address
			520	
				<sup>18</sup> SURVEYOR CERTIFICATION
				I hereby certify that the well location shown on this
				plat was plotted from field notes of actual surveys
				made hume on and an any amominion and that the
				made by me or under my supervision, and indi ine
				same is true and correct to the best of my belief.
				Date of Survey
				Signature and Seal of Professional Surveyor:
				PRE-SURVEY
				FOR INFORMATIONAL
				PURPOSES ONLY.
				Certificate Number

### C-108 - Items III, IV, V

### Item III - Subject Well Data

Wellbore Diagram – PROPOSED (New)

#### Item V – Area of Review Maps

1. Two Mile AOR Map with One-Mile Fresh Water Well Radius

2. 1/2-Mile AOR Map

### Item VI – Tabulation of AOR Wells

Tabulation includes all wells within a 1/2-mile radius. 5 wells penetrate the proposed injection interval; All P&A'd. P&A Well Diagrams

All Above Exhibits follow this page...

#### Received by OCD: 4/23/2024 3:12:18 PM



### Packer Systems

# **Weatherford**<sup>®</sup>

# Arrowset I-XS Mechanical Packer

Weatherford's Arrowset I-XS mechanical packer is a versatile, field-proven retrievable double-grip packer for isolating the annulus from the production conduit. The packer can be set with tension or compression.

A patented upper-slip releasing system reduces the force required to release the packer. A nondirectional slip is released first, making it easier to release the other slips. The packer also has a straight-pull safety release.

### **Applications**

- Production
- Pumping
- Injection
- Fiberglass tubing
- · Completions requiring periodic casing-integrity tests
- Zonal isolation

### Features, Advantages and Benefits

- The design holds differential pressure from above or below, enabling the packer to meet most production, stimulation, and injection needs.
- The packer can be set with compression or tension, enabling deployment in shallow and deep applications.
- The packer can be set and released with only a one-quarter turn of the tubing.
- The bypass valve is below the upper slips so that debris is washed from the slips when the valve is opened, reducing the times for circulation and total retrieval.
- The packer can be run with Weatherford's T-2 on-off tool, which enables the tubing to be disconnected and retrieved without retrieving the packer.



#### Packer Systems

# Arrowset I-XS Mechanical Packer

### **Specifications**

	Cas	ing		Packer							
OD (in./ <i>mm</i> )	Weight (Ib/ft, <i>kg/m</i> )	Minimum ID (in. <i>/mm</i> )	Maximum ID (in. <i>/mm</i> )	Maximum OD (in. <i>/mm</i> )	Minimum ID (in./ <i>mm</i> )	Standard Thread Connection (in./ <i>mm</i> )	Product Number				
4-1/2 114.3	9.5 to 13.5 14.1 to 20.1	3.920 99.57	4.090 103.89	3.750 95.25	1.985 <i>50.42</i>	2-3/8 EUE 8 Rd	604-45				
	14.0 to 17.0	4.892	5.012	4.515 <i>114.6</i> 8		2-3/8 EUE 8 Rd	604-55				
5-1/2	20.8 to 25.3	124.26	127.30	4.625 117.48	1.985	2-7/8 EUE 8 Rd	604-56				
139.7	20.0 to 23.0	) to 23.0 4.670	4.778	4.515	50.42	2-3/8 EUE 8 Rd	604-57				
	29.8 to 34.2	118.62	121.36	114.68		2-7/8 EUE 8 Rd	604-59-000				
6-5/8	24.0 to 32.0 35.7 to 47.6	5.675 144.15	5.921 150.39	5.515 <i>140.08</i>	2.375		604-65				
168.3	17.0 to 24.05.9216.1355.7925.3 to 35.7150.39155.83146	5.750 146.00	60.33	2-1/0 EUE 0 Ru	604-68						
7	17.0 to 26.0	17.0 to 26.0	17.0 to 26.0	17.0 to 26.0	17.0 to 26.0	6.276	6.538	5.515 140.08	2.375 60.33	2-7/8 EUE 8 Rd	604-72
177.8	25.7 to 39.3	159.41	166.07	6.000 152.40	3.000 76.20	3-1/2 EUE 8 Rd	604-74				

### **Options**

· Elastomer options are available for hostile environments.

For internal use

Link to Endeca assembly part numbers: Arrowset I-XS Mechanical Packer

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# Javelina 11-26-37 #1 SWD - Area of Review / 2 Miles

(Attachment to NMOCD Form C-108 - Item V)



Released to Imaging: 4/23/2024 3:13:56 PM

Received by OCD: 4/23/2024 3:12:18 PM



### Form C-108 Item VI - Tabulation of AOR Wells

	Top of Proposed SAN ANDRE	S Interval 3635'			ALL Wells (5) Penetrate Proposed Interval.*				
API	Current Operator	Well Name	Туре	Status	ULSTR	Lease	Depth (V)	Spud Dt.	Plug Dt.
Subject Well									
30-025-xxxxx	BC&D Operating, Inc.	Javelinla 11-26-37 SWD #1	SWD	New	H-11-26S-37E	Private	4850'	~8/01/2024	
Sections 11 &	<u>12 Wells</u>								
30-025-11974	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (SR)	M-12-26S-37E	Federal	4115'	1/1/1900	1/1/1900
				NO	documents in well file but (	OCD shows Si	ite Released.	<del>P&amp;A diagran</del>	<del>attached</del> .
30-025-11976	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (SR)	M-12-26S-37E	Federal	11969'	1/1/1900	########
								P&A diagran	attached.
30-025-11977	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (SR)	E-12-26S-37E	Federal	12535'	1/1/1900	7/3/1946
								P&A diagran	attached.
30-025-11970	PATTERSON OP & PUMPING; DBA/PENERGY	GLENN RYAN #002	Oil	Plugged (SR)	J-11-26S-37E	Federal	3436'	3/23/1948	########
								P&A diagran	attached.
30-025-11973	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #007	Oil	Plugged (SR)	P-11-26S-37E	Federal	12065'	1/1/1900	########
								P&A diaaran	attached.

SUMMARY: 5 wells penetrate the proposed disposal interval, 5 P&A.



## C-108 ITEM VI

AOR Well Information

### **Plugged Well Schematics**

There are 5 P&A'd Wells Within the AOR Which Penetrate the Proposed Injection Zone.

> 30-025-11970 30-025-11973 30-025-11975 30-025-11977

Exception: 30-025-11974, There are no documents in the well file under this API, zero (0). OCD status shows it to be Plugged (Site Released).

Well Diagrams and Sundries (as applicable) follow this page...

#### Patterson Operating Pumping Inc DBA/Penergy Glenn Ryan #2

PROPOSED 30-025-11970

CUT OFF WELLHEAD, VERIFY CEMENT TO SURFACE, & INSTALL BELOW GROUND DRY HOLE MARKER (LPC AREA)

10 3/4" @ 169' w/75 sx cmt

PERF @ 220'. CIRCULATE CEMENT TO SURFACE

PERF AT 1150'. SQZ W/ 50 SX CMT. WOC & TAG.



PRESSURE TEST CASING CIRCULATE MUD LADEN FLUID

SET CIBP AT 2800'. CAP WITH 70 SX. WOC & TAG.

5 1/2 " @ 2891' w/350 sx cmt Open Hole completion

vived by OCD: 4/23/2024 3:12:18 Submit I Copy To Appropriate District	PM State of New Mexico	Page 16 Form C-103
Office	State of New Mexico	Form C-105
<u>District I</u> – (575) 393-6161 1625 N. French Dr. Hobbs NM 88240	Energy, Minerals and Natural Resources	WELL API NO.
<u>District II</u> – (575) 748-1283	OIL CONSERVATION DIVISION	
811 S. First St., Artesia, NM 88210 District III – (505) 334-6178	1220 South St. Francis Dr	30-025-11970
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe NM 87505	5. Indicate Type of Lease
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa I C, IVIVI 87505	6 State Oil & Gas Lease No
87505		0. State On & Gas Lease No.
SUNDRY NOT	ICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPO	SALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	
PROPOSALS.)	CATION FOR PERMIT (FORM C-101) FOR SUCH	Glenn Ryan
1. Type of Well: Oil Well X	Gas Well Other	8. Well Number 002
2. Name of Operator	1	9. OGRID Number
BLM for Patterson Operating & Pu	umping Inc. DBA/Penergy	188566
3. Address of Operator	Drive Habba NBA 00240	10. Pool name or Wildcat
NMOCD 1625 North French I	Drive Hodds, NM 88240	Leonard;Queen, South
4. Well Location		
Unit LetterJ:	1650feet from theSouthline and	2310feet from theEastline
Section 11	Township 26S Range 37E	E NMPM Lea County
	11. Elevation (Show whether DR, RKB, RT, GR, et	<i>c.)</i>
PULL OR ALTER CASING DOWNHOLE COMMINGLE	P&A R P&A R P P&A R P P P P P P P P P P P P P P P P P P P	AILLING OPNS. PANDA XX NT JOB
	SEE ATTACHED	
hereby certify that the information	above is true and complete to the best of my knowled	lge and belief.
SIGNATURE	TITLE	DATE
SIGNATURE	TITLE E-mail address:	DATE PHONE:
SIGNATURE Type or print name For State Use Only	TITLE E-mail address:	DATE PHONE:

#### Plugging Report Glenn Ryan #2 Lat: 32.0550387052 Lon: -103.132689005

3/20/2017 Set matting board and rigged up. Got blow down tank on location. Will start laying down rods and move remaining equipment in the morning.

3/21/2017 POOH with 128 rods and  $2\frac{1}{2}$ " tubing pump. Dug out wellhead and plumbed surface head to tank. Installed BOP and laid down 76 jts of 2 7/8" tubing. Tubing is in bad shape. Will finish laying down tubing in the morning. Move remaining equipment to location.

3/22/2017 Finished laying down tubing. The tubing had more scale and holes the further we went. Laid down a total of 103 joints. RIH with gauge ring and sat down at 452'. RIH with scraper and work string to 2825'. POOH with scraper and RIH with 5 <sup>1</sup>/<sub>2</sub>" CIBP. Set CIBP at 2800'. Circulated MLF and tested casing to 500#. Held good. Spotted 70 sx Class C cement on CIBP and POOH with setting tool. SION

3/23/2017 RIH and tagged cement at 2061'. Perforated  $5\frac{1}{2}$ ' casing at 1150'. Set packer at 845' and pressured up on perfs to 500#. Held pressure no drop. POOH with packer and spotted 25 sx cement across perfs from 1206'. WOC and tagged cement at 964'. Perforated  $5\frac{1}{2}$ ' casing at 220'. Pumped down casing to establish circulation down  $5\frac{1}{2}$ '' to perfs and up annulus to surface. Could pump into the perfs but no circulation to surface. Hook up to the surface valve and Pressured up to 900#. Bled off and repeated process. Could not pump down surface. Pumped 45 sx cement down  $5\frac{1}{2}$ '' casing and out of the perfs at 220'. SION.

3/27/2017 Dug out cellar and cut off wellhead. Filled up both string of casing to surface with 15 sx cement. Witnessed by Jim McCormick. Install marker and cut off anchors. Cleaned pit.

	UN O STA DEPARTMEL OF TH GEOLOGICAL S	TES SUBAIT IN IT (Cthe Instruct E INTERIOR Perse side) SURVEY	IPL TE Porm approved. Padget Bureau 5. LEASE DESIGNATION AN NM 7951	No. 42 R142- D SERIAL NO
Also not use t	JNDRY NOTICES AND R this form for proposals to drill or to de Use "APPLICATION FOR PERMI"	EPORTS ON WELLS eepen or plug back to a different reser T-" for such proposals.)	rvoir.	
UL GAS WEL VEL VEL		·	S. FARM OR LEASE NAME	
Bettis, 3. ADDRESS OF OPERA	Boyle & Stovall		Leonard-Fede	ral
Box 1168 LOCATION OF WELL See also space 17 At surface	8, Graham, Texas 76 . (Report location clearly and in accord below.)	5046 Jance with any State requirements;*	7 10. BIELD AND POOL, OR V Jalmat Yates 11. BEC, T. R., M., OR BLE SUBRY OR AREA	Gas K. AND
660	' FSL & 660' FEL		Sec.11-265-3	7 E
14. PERMIT NO.	15. ELEVATIONS (	Show whether DF, RT, GR, etc.)	12. COUNTY OB PARISH	13. state New Me:
	Check Appropriate Box 7	o Indicate Nature of Notice, F	leport, or Other Data	
	NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
FRACTURE TREAT SHOOT OR ACIDIZ REPAIR WELL (Other) 17. DESCHE FROPOSH proposed work nent to this wo	THE SULTIPLE COMPLETE ABANDON* CHANGE PLANS ED OR COMPLETED OPERATIONS (Clearly S C. If well is directionally drilled, give ork.)*	F FRACTURE TEE. SHOOTING OR A (Other) (Norte : 1 Completi tate all pertinent details, and give pe subsurface locations and measured at	ATMENT ALTERING CASH ACIDIZING ABANDONMENF Report results of moltiple completion on on or Recompletion Report and Log form rtinent dates, including estimated date ad true vertical deribs for all markers a	Well
1. Ran tub	SUBSEQ bing to 2580' and c coment plug from 24	UENT REPORT irculated well bore 70' to 2580'.	e with mud. Spotted	
<ol> <li>Ran tul 40 sx o</li> <li>Shot o</li> <li>Ran tul</li> <li>Pulled</li> <li>Pulled</li> <li>NOTE: Mud</li> </ol>	bing to 2580' and c cement plug from 24 ff 9-5/8" casing at bing to 1000'. Spo tubing to 522'. S tubing and placed was placed between	UENT REPORT irculated well bore 70' to 2580'. 1219'. tted 70 sx cement p potted 75 sx cement plug from 15' to 0 all plugs.	e with mud. Spotted plug from 8321 to 10 t plug from 4221 to 1 with 10 sx of come	00 3.9* rt
1. Ran tul 40 sx 2. Shot o 3. Ran tul 4. Pulled 5. Pulled NOTE: Mud	bing to 2580' and c cement plug from 24 ff 9-5/8" casing at bing to 1000'. Spo tubing to 522'. S tubing and placed was placed between PAA 4-13-7	UENT REPORT irculated well bore 70' to 2580'. 1219'. tted 70 sx cement p potted 75 sx cement plug from 15' to 0 all plugs.	e with mud. Spotted olug from 8321 to 10 t plug from 4221 to ! with 10 see come	00 3.9* rt
<ol> <li>Ran tul 40 sx</li> <li>Shot o</li> <li>Ran tul</li> <li>Pulled</li> <li>Pulled</li> <li>Pulled</li> <li>NOTE: Mud</li> <li>Ibereby cercute</li> <li>SIGNED</li> <li>(This space for</li> </ol>	bing to 2580' and c cement plug from 24 ff 9-5/8" casing at bing to 1000'. Spo tubing to 522'. S tubing and placed was placed between PAA 4-13-7	UENT REPORT irculated well bore 70' to 2580'. 1219'. tted 70 sx cement p potted 75 sx cement plug from 15' to 0 all plugs. TITLE Petroleum En	gineer DATE 5-1-	04 5. 2 * r t 7 <u>4</u>
<ol> <li>Ran tul 40 sx 6</li> <li>Shot o</li> <li>Ran tul 4. Pulled</li> <li>Pulled</li> <li>Pulled</li> <li>NOTE: Mud</li> <li>MOTE: Mud</li> <li>I hereby cerclic SIGNED</li> <li>(This space for AFPROVED BY CONDITIONS OF</li> </ol>	bing to 2580' and c cement plug from 24 ff 9-5/8" casing at bing to 1000'. Spo tubing to 522'. S tubing and placed was placed between PAA 4-13-7 That the foregoing is true and correct and for the foregoing is true and correct and for the foregoing is true and correct of APPROVAL, IF ANY:	UENT REPORT irculated well bore 70' to 2580'. 1219'. tted 70 sx cement p potted 75 sx cemen plug from 15' to 0 all plugs. TITLE Petroleum En TITLE	gineer DATE 5-1-1 BATE	7 <u>4</u>

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Form 9-331 (May 1963)	DEPARTI	UNITED STATE MEN OF THE GEOLOGICAL SU	ES INTERIOR RVEY	SUBMIT IN TRIPLICE SEC (Other Instructions enverse side)	Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND BERIAL NO. NM 7951 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
(De not ase	this form for proper Use "APPLIC	ICES AND REP als to drill or to deep ATION FOR PERMIT-	PORTS ON en or plug back "for such propos	WELLS to a different reservoir. als.)	
<u>1.</u> оц эл	S. Y. (murp	<u> </u>			7. UNIT AGREEMENT NAME
2. NAME OF OPERAT	OR				S. FARM OR LEASE NAME
Bettis, 3. ADDBESS OF OPE	Boyle & St RATOR	ovall			9. WELL NO.
4. LOCATION OF WE See also space 1 At surface	LL (Report location of below.)	learly and in accordan	ce with any Stat	e requirements.*	10. FIELD AND POOL, OR WILDCAT Jalmat Yates Gas
660'	F.S.L. & 6	60' F.E.L.			SUBVEY OR AREA
		15 ELEVATIONS (Sho	w whether DF, RT,	GR, etc.)	12. COUNTY OF PARISH 13. STATE
14. PERMIT NO.		301	3 RT		Lea New Mexi
16.	Check A	opropriate Box To	Indicate Natu	re of Notice, Report, or (	Other Data
	NOTICE OF INTE	TION TO:		SUBSEC	QUENT REPORT OF:
TEST WATER S	HUT-OFF	PULL OR ALTER CASING		WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREA	T	MULTIPLE COMPLETE		FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACID	IZE	ABANDON*		SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL		CHANGE PLANS		(Other) Plug Bac	<b>CK</b> X
(Other)				Completion or Recom	pletion Report and Log form.)
1. Pur 2. Sho 3. Rar 4. Pu	nped 35 sx ot off 7" of tubing to lled tubing	cement down asing at 40 4100' and to 3750' a	tubing 76' and pumped 3 nd pumpe	- and tagged at <u>9</u> pulled. 5 sx cement. d 50 sx cement	9310' with tubing. plug. Tagged plug
at 5. Tes nor	3651'. sted Yates n-commercia	formation f 1. Finishe	rom 2580 ed (3-11-	)' to 2797' and ·74).	it proved to be
NOTE:	Mud was pl	aced betwee	en all pl	ugs.	
18. I hereby certif	y that the foregoing	is true and correct	<b>D</b> - <i>t</i> -	coloum Engineers	E = 1 = 7h
SIGNED	r Federal or State	fice use)	TITLE Pet	roleum Engineer	DATE7
(ins space it	· reactar or state 0	,	mm 1		DATE
APPROVED F CONDITIONS	OF APPROVAL, IF	ANY :	11156	TACCEPTED AND	APAK
		*\$~~	Instructions of	n Reverse Side	a contract of the second se
		Jee		U S. GEOLOUN	MENTO L
sed to Imaging: 4	/23/2024 3:13:56	PM		HUDE	

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#### PLUGGED WELL SCHEMATIC



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Budget Bureau No. 42-R358.

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9 <b>rm 9–331 a</b> March 1942)		(SUBMIT I	N TRIPLICATE	)	Land Office	riosia <sub>n</sub> 200 2-062384	No.
		UNITE	D STATES				-
	DEI	PARTMENT	OF THE INT	TERIOR	Unit		-
		GEOLOG	ICAL SURVEY		Federal	Leonard UI	60.
NOTICE OF INTENTI NOTICE OF INTENTI NOTICE OF INTENTI NOTICE OF INTENTI NOTICE OF INTENTI NOTICE OF INTENTI NOTICE OF INTENTI	ON TO DRILL ON TO CHANGE PLANS ON TO CHANGE PLANS ON TO TEST WATER SHU ON TO RE-DRILL OR REP ION TO SHOOT OR ACIDIZ ION TO PULL OR ALTER ( ION TO ABANDON WELL	TICES AN	SUBSEQUENT REI SUBSEQUENT REI SUBSEQUENT REI SUBSEQUENT REI SUBSEQUENT REI SUBSEQUENT REI SUBSEQUENT REI	RTS OF PORT FUNCTION PORT OF ALTERIN PORT OF ABANDO WELL HISTORY			
	(INDICATE ABOV	E BY CHECK MARK NA	TURE OF REPORT. N	OTICE. OR OTHER	DATA)		1
	(INDICATE ABOV						-
			Midland, Te	3748	amary 29	<b>.</b> , 19 <b>.</b> 4	
Vell No. 1	is located	660 ft. from	$\left\{ \begin{array}{c} \mathbf{S} \\ \mathbf{S} \end{array} \right\}$ line and .	6 <b>60</b> ft. fr	om W line	of <b>sec.</b>	
(14 Sec. and a	11 DI 390+12	(Twp.)	37-8 (Range)	(Meridian)			
(H Sec. and I Dublin (Field he elevation o	f the derrick floor	(Twp.) (Twp.) (County or above sea leve	37-8 (Range) Subdivision) I is _3033 ft.	(Meridian)	State or Territo	жу)	
Plugged per Circulated 1 off 5% cas Unable to re sacks. Flaced mark January 23,	f the derrick floor f the derrick floor expected depths to object forated sectio mud. While go ing, shot disc ecover additio er according t 1927	20-5 (Twp.) (County or above sea leve DETAIL the sands; show sizes ng points, and all oth n from 52201 ding in hole harged press nal casing; c establishe	37.2 (Range) Subdivision) I is _303.3 ft. S OF WORK weights, and length for important propo to 5010* w with 3 qts. starely at 3 compatied fr ad regulation	(Meridian) ns of proposed car sed work) 1th 25 say shot of ( lik '. Full cm 1kk ' to ms and ab	iow Maxico (State or Territo ings; indicate mu bits of com glycerine led like of surface	sidding jobs, cemer ent. to shoot f 52" casi: with 70	1t- 0.g.
(H Sec. and I Dublin (Field he elevation o state names of and o Flugged per Circulated 1 off 52" cas Unable to re sacks. Flaced mark January 23, I understand that Company	t this plan of work must Humble Oil &	20-5 (Twp.) (County or above sea leve DETAIL tive sands; show sizes ng points, and all oth n from 5220 ing in hole harged press nal casing; c establishe	37.2 (Range) Subdivision) I is	(Meridian)	iow Maxico (State or Territo ings; indicate mu bks of com glycerine led like of surface	wy)	nt- Δg.
Circulated 1 Off 52" cas Unable to resolved State names of and off Plugged per Circulated 1 off 52" cas Unable to resolved Sacks. Flaced mark January 23, I understand that Company	t this plan of work must Humble Oil & Box 1600	20-S (Twp.) (County or above sea leve DETAIL tive sands; show sizes ng points, and all oth n from 52201 ding in hole harged promi nal casing; c establishes	37.2 (Range) Subdivision) I is _JOLJ ft. S OF WORK , weights, and length , weights, a	(Meridian)	iow Maxico (State or Territo ings; indicate mu bits of com glycerine led liks' o b surface andoned we re operations ma	adding jobs, comer ent. to shoot f 52" casi: with 70 11 on by be commenced.	nt- 0.g.
Circulated 1 Off 52" cas Unable to r sacks. Flaced mark January 23, I understand that Company	t this plan of work must Humble Oil & Box 1600 Midland, Tex	20-S (Twp.) (County or above sea leve DETAIL the sands; show sizes ng points, and all oth n from 52201 ding in hole harged press nal casing; c establishes receive approval in w Refining Co	37.2 (Range) Subdivision) I is _300.3 ft. S OF WORK weights, and length for important propo to 500.0 * w with 3 qts. starely at 3 company at 3 company at 3 company at 3 company at 3 company at 3 F	(Meridian) is of proposed can sed work) 1th 25 say shot of jul '. Full cm 1jul ' to ms and ab gical Survey befor 3y.	iow Maxico (State or Territo ings; indicate mu class of com glycerine led 114 0 surface andoned #8 re operations me	adding jobs, comer ent. to shoot f 52" casi: with 70 ll on hy be commenced.	1t- Dgg •

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Form 9-381 a (March 1942)

Budget Bureau No. 42-R358. Approval expires 11-30-46.

Land Offic, Artesia, New Mexico

Lonso No. LC-062384

Unit .....

Federal Leonard Oil Co.

(SUBMIT IN TRIPLICATE)

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

NOTICE OF INTENTION TO DRILL	SUNDRY N	OTICES AND	REPORTS	ON WELLS	
NOTICE OF INTENTION TO CHARGE PLANS	NOTICE OF INTENTION TO DRILL	s	UBSEQUENT REPORT OF	WATER SHUT-OFF	
Nonce of INTENTION TO TEST WATER SUIT-OF	NOTICE OF INTENTION TO CHANGE PLANS	s	UBSEQUENT REPORT OF	SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO REAR WELL SUBSCUENT REPORT OF REPAIR MEMBERS AND	NOTICE OF INTENTION TO TEST WATER S	HUT-OFF 5	UBSEQUENT REPORT OF	ALTERING CASING	
NOTICE OF INTENTION TO SHOOT OR ACIDZE	NOTICE OF INTENTION TO RE-DRILL OR F	EPAIR WELL	UBSEQUENT REPORT OF	REDRILLING OR REPAIR	
NOTICE OF INTENTION TO PULL OR ALTER CASING	NOTICE OF INTENTION TO SHOOT OR ACI	SIZE S	UBSEQUENT REPORT OF	ABANDONMENT	A.
NOTICE OF INTENTION TO ABANDON WELL         (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)         Midland, Texas         January 29,, 19_17.         Well No	NOTICE OF INTENTION TO PULL OR ALTER	? CASING 5	UPPLEMENTARY WELL H	ISTORY	
(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OF OTHER DATA)         Midland, Texas         Midland, Texas         January 29,, 19_17         Well Nois located	NOTICE OF INTENTION TO ABANDON WELL				
Midland, Texas       January 29,, 19_b7         Well No	(INDICATE AB	OVE BY CHECK MARK NATUR	E OF REPORT, NOTICE, O	R OTHER DATA)	
Well No.       1       is located       660       ft. from [S] line and       660       ft. from [S] line of sec.         SW/L of SW/L of Sec.12       26-S       37-E       (Merdian)         Dublin       Lea       (Merdian)         Dublin       Lea       New Mexico         (Hear, and Sec. No.)       (County or Subdivision)       New Mexico         (Hear, and Sec. No.)       (County or Subdivision)       New Mexico         (Hear, and all other face of the derrick floor above sea level is .3013. ft.       New Mexico       (State or Territory)         The elevation of the derrick floor above sea level is .3013. ft.       DETAILS OF WORK       State names of and expected depths to objective sandy them size, within and their important proposed work       New Mexico         Plugged perforated section from 5220' to 5010' with 25 sacks of cement.       Circulated mud. While going in hole with 3 qts. shot of glycerine to shoot off 5½" casing, shot discharged prematurely at 114'.       Pulled 114' of 5½" casing, sacks.         Placed marker according to established regulations and abandoned well on January 23, 1947       Keclel Vito         I understand that the plan of work must receive approval in writing by the Geological Early before operations may be commenced.         Company       Humble 0il & Refining Company         Address       Box 1600         Midland, Texas       By <td></td> <td>Mi</td> <td>dland, Texas</td> <td>January 29,</td> <td>, 19_47_</td>		Mi	dland, Texas	January 29,	, 19_47_
SW/L of SW/L of Sec.12       26-S       37-E         (W Bec. and Sec. No.)       (Twp.)       (Maridian)         Dublin       Lea       New Mexico         (Field)       (County or Stubdivision)       (State or Twritery)         The elevation of the derrick floor above sea level is _3013ft.       DETAILS OF WORK         State names of and expected depths to objective and is they also, weights, and lengths of proposed verifier proposed verifier product product product proposed verifier product proposed verifier product product proposed verifier product product proposed verifier product proposed verifier product produc	Well No is locate	d	line and <u>660</u>	.ft. from $\left  \begin{matrix} \mathbf{F} \\ \mathbf{W} \end{matrix} \right $ line of	sec
Dublin       Lea       New Mexico         (Field)       (County or Subdivision)       (State of Territory)         The elevation of the derick floor above sea level is _3013ft.       DETAILS OF WORK         Biate names of and expected depths to objective and all other important proposed work       (State of Territory)         Plugged perforated section from 5220' to 5010' with 25 sacks of cement.       of glycerine to shoot off 52" casing, shot discharged prematurely at 1141'.         Plugted marker according to established regulations and abandoned well on January 23, 1947       Detailing by the Geological Eurory before operations may be commended.         I understand that this plan of work must receive approval in writing by the Geological Eurory before operations may be commended.       Mexico         Midland, Texas       By       Mexico         Title       Division Superintendent.	SW/11 of SW/11 of Sec. 12 (14 Sec. and Sec. No.)	26-S 37- (Twp.) (Rang	E (M	eridian)	
(Field) (County or Subdivision) (State or Territory) The elevation of the derrick floor above sea level is _3013 ft. DETAILS OF WORK State names of and expected depths to ebjective sended; show sizes, weights, and langths of proposed work Plugged perforated section from 5220' to 5010' with 25 sacks of cement. Circulated mud. While going in hole with 3 qts. shot of glycerine to shoot off 5½" casing, shot discharged prematurely at 1144'. Pulled 1144' of 5½" casing unable to recover additional casing; cemented from 1144' to surface with 70 sacks. Placed marker according to established regulations and abandoned well on January 23, 1947 I understand that this plan of work must receive approval in writing by the Geological Eurory before operations may be commenced. Company Humble Oil & Refining Company Address. Box 1600 Midland, Texas. By Title Division Superintendent	Dublin	Lea		New Mexico	
The elevation of the derrick floor above sea level is <u>3013</u> . ft. DETAILS OF WORK State names of and expected depths to objective and; show size, weights, and langths of proposed casings; indicate mudding jobs, essenti- ing points, and all other important proposed work Plugged perforated section from 5220' to 5010' with 25 sacks of cement. Circulated mud. While going in hole with 3 qts. shot of glycerine to shoot off 5½" casing, shot discharged prematurely at 114'. Unable to recover additional casing; cemented from 1144' to surface with 70 sacks. Placed marker according to established regulations and abandoned well on January 23, 1947 I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced. Company Humble Oil & Refining Company Address. Box 1600 Midland, Texas By Title Division Superintendent	(Field)	(County or Subd	ivision)	(State or Territory)	
DETAILS OF WORK State names of and expected depths to objective sands; show disce, weights, and lengths of proposed casings; indicate mudding jobs, cement Plugged perforated section from 5220' to 5010' with 25 sacks of cement. Circulated mud. While going in hole with 3 qts. shot of glycerine to shoot off 5½" casing, shot discharged prematurely at 1141'. Unable to recover additional casing; cemented from 114' to surface with 70 sacks. Placed marker according to established regulations and abandoned well on January 23, 1947 I understand that this plan of work must receive approval in writing by the Geological Europe before operations may be commenced. Company	The elevation of the derrick floo	or above sea level is	3013 ft.		
State names of and expected depths to objective and all other important proposed casings; indicate mudding jobs, cement Plugged perforated section from 5220' to 5010' with 25 sacks of cement. Circulated mud. While going in hole with 3 qts. shot of glycerine to shoot off 5½" casing, shot discharged prematurely at 1144'. Unable to recover additional casing; cemented from 1144' to surface with 70 sacks. Placed marker according to established regulations and abandoned well on January 23, 1947 I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced. Company Humble 0il & Refining Company. Address. By Title Division Superintendent		DETAILS C	F WORK		
Plugged perforated section from 5220' to 5010' with 25 sacks of cement.         Circulated mud. While going in hole with 3 qts. shot of glycerine to shoot off 5½" casing, shot discharged prematurely at 1141'.         Unable to recover additional casing; cemented from 1141' to surface with 70 sacks.         Placed marker according to established regulations and abandoned well on January 23, 1947         I understand that this plan of work must receive approval in writing by the Geological Surface operations may be commenced.         Company       Humble Oil & Refining Company.         Address       Box 1600.         Midland, Texas       By         Title       Division Superintendent	State names of and expected depths to obj	ctive sands; show sizes, weig ing points, and all other in	hts, and lengths of prop portant proposed work	osed casings; indicate muddi )	ng jobs, cement-
Placed marker according to established regulations and abandoned well on January 23, 1947 I understand that this plan of work must receive approval in writing by the Geological Eurory before operations may be commenced. Company Humble Oil & Refining Company Address Box 1600 Midland, Texas By Title Division Superintendent	Plugged perforated secti Circulated mud. While g off $5\frac{1}{2}$ " casing, shot dis Unable to recover additi sacks.	on from 5220' to oing in hole wit charged prematur onal casing; cem	5010' with 2 h 3 qts. shot ely at 144'. ented from 14	5 sacks of cemen of glycerine to Pulled 144' of y 4' to surface wi	t. shoot 5 <sup>1</sup> 2" casing th 70
I understand that this plan of work must receive approval in writing by the Geological Europy before operations may be commenced. Company Humble Oil & Refining Company Address Box 1600 Midland, Texas By Title Division Superintendent	Placed marker according January 23, 1947	to established r	egulations an	d abandoned well	on
I understand that this plan of work must receive approval in writing by the Goological Survey before operations may be commenced.         Company       Humble Oil & Refining Company         Address       Box 1600         Midland, Texas       By         Title       Division Superintendent				RECEIVE	
Company Humble Oil & Refining Company finitesia, Providence Address Box 1600 Midland, Texas By Title Division Superintendent	I understand that this plan of work mu	st receive approval in writin	g by the Goological Sur	ey before operations may be	commenced.
AddressBox 1600 Midland, TexasBy TitleDivision Superintendent	Company Humble Oil	& Refining Compa	ny	Tasia, Piese Mars	<u>e 3)</u>
Midland, Texas By By Title Division Superintendent	AddressBox 1600			n na na sana ana ang sana sa sana sa sana sa	
Title Division Superintendent	Midland, Te	xas	By	unto	me
			TitleD	ivision Superinte	endent

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~ 144' to o' cut off @ 144' 1375" in 17 hole I 1.9482 × 400 133/8 @ 483 ~1/400 sx 17"hole = (779) 9% @124: 3.7358 3.7358 X 2060 = (7695) Both 138 \$ 95" CS, Should have Circulate h 9-50 3021 - w/2060 st (124) Showt Two plugs inside 5'2 @ 14201 (2) 1115' 5 2 20 - 50/0' 9250-9040 5'z in Pz hle 9830-9720 = 3, 3098 X 825 = 2730. fill of to 9256' 54 11895-11500 8 3 / hele 11968 W/8255X

Humble Leonard Fed #1 M-14-26-37

to 11,928	TA = 910
13 \$ @ 483 w/ 400 sk	TX = 1115
95 @ 3021 w/2060 sx	13× =2+20
51 @ 11968 w/825sk	74 = 2580

Plugge back 11, 895 - 11, 500 w/ 50 sx NEAholo 9930 -9720 W255xcit

PB - 9250+090F0 W/25 St Cat P#Ahole 5220 EO 50/0 w/25 5x c it Cart 5' @ 144' Cont 144' to support with to se

53/

Page 25 of 51 Budget Bureau No. 42-R358. Approval expires 11-30-46.

#### UNITED STATES

Land Office	Artesta,	X.	<b>H</b> ,
Lease No.	1-214		
Unit	72.99		

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Teleral.	Latinard	011	60.	<b>}</b>
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### SUNDRY NOTICES AND REPORTS ON WELLS

ENTION TO DRILL		SUBSEQUENT REPORT OF W	ATER SHUT-OFF	
ENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SH	OOTING OR ACIDIZING	
ENTION TO TEST WATER SHUT	-OFF	SUBSEQUENT REPORT OF AL	TERING CASING	
ENTION TO RE-DRILL OR REPA	IR WELL	SUBSEQUENT REPORT OF RE	DRILLING OR REPAIR	
ENTION TO SHOOT OR ACIDIZI		SUBSEQUENT REPORT OF AL	BANDONMENT	
ENTION TO PULL OR ALTER C	ASING	SUPPLEMENTARY WELL HIST	ORY	
ENTION TO ABANDON WELL	<u> </u>			
(INDICATE ABOVE	BY CHECK MARK NAT	URE OF REPORT, NOTICE, OR O	THER DATA)	
		Milland, Woma, 3	<b>10</b>	
		(N T)		
is located	ft. from	In line and the fi	from in line of sec.	2
( 5 <b>66. 12</b> /	1	7	New Newl co.	
and Sec. No.)	(Twp.) (R.	ange) (Merid	ian)	
Lesbarger	2.00		New York on	
Field)	(County or Su	bdivision)	(State or Territory)	
	ENTION TO DRILL ENTION TO CHANGE PLANS ENTION TO TEST WATER SHUT ENTION TO RE-DRILL OR REPA ENTION TO SHOOT OR ACIDIZI ENTION TO PULL OR ALTER C ENTION TO ABANDON WELL (INDICATE ABOVE is located and Sec. No.)	ENTION TO DRILL ENTION TO CHANGE PLANS ENTION TO TEST WATER SHUT-OFF ENTION TO RE-DRILL OR REPAIR WELL ENTION TO SHOOT OR ACIDIZE ENTION TO SHOOT OR ACIDIZE ENTION TO ABANDON WELL (INDICATE ABOVE BY CHECK MARK NATION IS located LINE IS located LINE (Twp.) (Ref IS County of Su	ENTION TO DRILL	ENTION TO DRILL

The elevation of the derrick floor above sea level is \_\_\_\_\_\_ ft.

**DETAILS OF WORK** 

(State names of and expected depths to objective sands; shew sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

The well was drilled to a total depth of 12,535'. Hele will be filled with commut from total depth of 12,535' to 12,450'. Henry and will be pumped in hele from 12,450' to 10490'. Commut plug placed by pump from 10490' to 10515'. Hel pumped in hele from 10515' to 9060'. Commut plug placed by pump from 9060' to 9660'. Hed will be pumped in hele from 9660' to 7400'. Commut plug placed by pump from 7400' to 7015'. Sections from 6095' to 7000', 6500' to 6300', and 5500' to 5400' will be tested by drill stan testing. If the above sections full to produce, commut plugs will be placed, Hed will be placed in the intervening sections. 25' of commut will be placed in top of hele and suitable marker placed in accordance with plugging requirements.

No attempt till be made to recever \$-5/8" enging.

I understand that this plan of work must receive approval in writing b	y the Geological Survey before operations may be commenced.
Company Muthie Oil & Refining Company	
Address Den 1600, Maland, Tome	
	By Muran
	Title Asst. Division Superintender

1. 3. GOVERNMENT PRINTING OFFICE 16-8437-2

Page 26 of 5

Budget Bureau No. 42-R358. Approval expires 11-30-46.

rm 9-331 a		Land Office Artesia, New Me
March 1942)	(SUBMIT IN TRIPLICATE)	85056-7
	LINITED STATES	Losse No.
-0.0		Unit
DI	PARTMENT OF THE INTERIO	
	GEOLOGICAL SURVEY	Federal Leonard Oil Co. B.
CUNDRY N	TICES AND REPORTS	ON WELLS
SUNDATIN	Mole in a	
NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF	WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF	AI TERING CASING
NOTICE OF INTENTION TO TEST WATER S	SUBSEQUENT REPORT OF	REDRILLING OR REPAIR
NOTICE OF INTENTION TO RE-DRILL OR F	SUBSEQUENT REPORT OF	ABANDONMENT
NOTICE OF INTENTION TO SHOOT OR ACI	SUPPLEMENTARY WELL H	ISTORY
NOTICE OF INTENTION TO PULL OR ALTE		
NOTICE OF INTENTION TO ABANDON WEL		
(INDICATE A	OVE BY CHECK MARK NATURE OF REPORT, NOTICE, O	R OTHER DATA)
	Widland Taves	July 16, 19 46
-e	MIGLANG, ICAAS	, 1/
	NI	to form El line of ser 12
Well No. B-1 is locate	d 1980 ft. from St line and	W Ine of sec.
· · · · · · · · · · · · · · · · · · ·	26_S 37-E	
MIT AF CAA 12		
SN/4 OI NN/4 OI Sec.12	(Twp.) (Range) (M	feridian)
(4 Bec. and Bes. No.)	(Twp.) (Range) (M	(eridian) New Mexico
(W Bee, and See. No.) Dublin-Ellenburger	(Twp.) (Range) (M LCB (County or Subdivision)	(State or Territory)
(H Bee, and Bee. No.) (H Bee, and Bee. No.) Dublin-Ellenburger (Field)	(Twp.) (Range) (M Lea (County or Subdivision)	(eridian) New Mexico (State or Territory)
(W See, and See, No.) <u>(W See, and See, No.)</u> <u>Dublin-Ellenburger</u> (Field) The elevation of the derrick flucture	(Twp.) (Range) (M Lea (County or Subdivision) oor above sea level is _3013_ft.	(State or Territory)
(W See, and See, No.) <u>(W See, and See, No.)</u> <u>Oublin-Ellenburger</u> (Field) The elevation of the derrick flo	(Twp.) (Range) (M Lea (County or Subdivision) oor above sea level is <u>3013</u> ft. DETAILS OF WORK	(State or Territory)
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SW/4 OI NW/4 OI SECOLE (14 Sec. and Sec. No.) Dublin-Ellenburger (Field) The elevation of the derrick flu (State names of and expected depths to ol SEE ATTACHED DI	(Twp.) (Range) (M Lea (County or Subdivision) oor above sea level is <u>3013</u> ft. DETAILS OF WORK points, and all other important proposed wor Ing points, and all other important proposed wor STAIL SHEET.	(State or Territory) (State or Territory) posed casings; indicate mudding jobs, cement-
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SM/4 OI INN/4 OI SECOLE (14 Sec. and Sec. No.) Dublin-Ellenburger (Field) The elevation of the derrick fla (State names of and expected depths to of SEE ATTACHED DI SEE ATTACHED DI I understand that this plan of work in Company	(Twp.) (Hange) (M Lea (County or Subdivision) oor above sea level is <u>3013</u> ft. DETAILS OF WORK biective sands; show sizes, weights, and lengths of pro- ing points, and all other important proposed wor STAIL SHEET.	Ieridian) New Mexico (State or Territory) posed casings; indicate mudding jobs, cement- (State or Territory) (State or Territory) posed casings; indicate mudding jobs, cement- (State or Territory) (State or T
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Detail Sheet for Form 9-331-a

Federal Leonard Oil Co. "B" #1

#### DETAILS OF WORK

Plugged back from 12535' to 12450' with 40 sacks Trinity Inferno Cement. Plugged back from 10450! to 10315! with 54 sacks Trinity Inferno Cemtnt. Plugged back from 98601 to 96601 with 86 sacks Trinity Inferno Cement. Set plug at 7400' with 175 sacks O.K. Cement. Pulled up to 7003', reversed circulation and cut plug at 7003'. No cement pumped out. After cement set 24 hours located plug at 7506'. Plugged back from 7403' to 7003' with 185 sacks El Toro Cement. After cement set found plug at 7064 . Plug gave way with 8000# pressure. Found hard plug at 7068'. Set 15,000# weight on plug with drill pipe. Held OK. Perforated formation from 6895' to 7005' with 1 1/2" shop per foot, total 110 shots. Ran Halliburton Drill Stem Test and set packer at 6893'. Tested formation from 6893' to 7068'. Tool open one hour. Slight blow air for 37 minutes. Recovered 30' mud. No flowing pressure. Plugged back from 7068! to 6868! with 52 sacks Atlas Regular Cement. Plugged back from 6560! to 6190! with 150 sacks Atlas Regular Cement. Cut plug at 6252'. Found top of plug at 6343'. Perforated from 6135' to 62201 with 125 xxxxx shots, 1 shot per foot. Ran Halliburton Drill Sten Test from 6130' to 6343'. Tool open one hour. Recovered 2000' drilling mud and 3080' salty sulphur water. Flowing pressure 1800#, mud pressure 3350#, formation pressure 0. Packer unseated. Plugged back from 6343' to 6090' with 100 sacks Atlas Regular Cement. Plugged back from 5705! to 5305! with 150 sacks Atlas Regular Cement. Found top of plug at 5440'. Perforated with 217 shots, one shot per foot, from 5188' to 5405'. Ran Halliburton Drill Stem Test from 5168' to 5440'. Tool open one hour. Recovered 1200' drilling mud and 2100' salty sulphur water. Flowing pressure 1225#, mud pressure 2950#, no build up pressure. Packer unseated. Plugged back from 5440' to 5100' with 140 sacks Encor Cement. Plugged back from 4226' to 4026' with 180 sacks Encor Cment. Set plug from 100' to surface with 100 sacks Encor Cement. Filled up cellar and installed markers. Work completed July 15, 1946.

NOTE: All depths between plugs filled with mud laden fluid.

2-26

#### PLUGGED WELL SCHEMATIC



# **C-108 ITEM VII – PROPOSED OPERATION**

The Javelina 11-26-37 SWD #1 will be operated as a commercial disposal service to area operators to facilitate the disposal of produced water from typical producing formations in the area. Source water will typically be from Bone Spring, Wolfcamp and Delaware production. Analyses from these formations as well as the San Andres are included herein.

BC&D Operating, Inc. does not believe the proposed SWD will have any adverse impact on producing operations in the area. There is no San Andres production within one mile. The area is well east of the Delaware Mountain Group Risk Assessment area and is up on the platform.

The system will be closed utilizing a tank battery facility located on the well site as well as delivery via pipeline. The well and injection equipment will be equipped with pressure limiting devices and volume meters. The annulus, loaded with an inert, anti-corrosion packer fluid, will be monitored for pressure.

The tanks will be equipped with telemetry devices and visual alarms to alert the operator and customers of full tanks or an overflow situation. Any adverse event will be handled expeditiously and reported as the situation may require.

Injection pressure will be 727 psi with a maximum daily rate of 15,000 bwpd is being requested but average rates are expected to be approximately 10,000 bwpd. In the future, BC&D Operating, Inc. may opt to conduct a step rate test if it is determined that greater rates may be required. This would be submitted to OCD as a request for *Injection Pressure Increase*.

Routine maintenance will be ongoing, and any releases will be reported within 24 hours to OCD on form C-141 pursuant to various portions of 19.15.30 NMAC.

The facility will be available for inspections at any time deemed necessary by OCD.

### **C-108 ITEM VII – PRODUCED WATER ANAYLSES**

Source and Disposal Waters are Reasonably Compatible.

### Item VII.4 – Water Analysis of Source Zone Water

Queen, Grayburg, Delaware, Bone Spring, Wolfcamp

### Item VII.5 – Water Analysis of Disposal Zone Water

San Andres

Water analysis summaries follow this page...

#### SOURCE ZONE

Lab ID

#### **ARTESIA GROUP - TNSL-YTS-7RVRS**

		3002506	278									Sample	e ID		4425
Well Name	9	A B REE	VES				002					Sample	No		
Locat	tion	ULSTR	20	s	37	F		Lat / Lor	a	32,54547	-103 27965				
		1	980	N	66	50	w			5	02.0101	County	Lea		
Opera	ator (	when sa	nnled	`											
Opera		when sa	Field	<b>,</b> d	EUI	MONT						Unit E			
	Sample Date				-	-		Analy	sis Date						
			Sam	nple So	ourc	UNK	NOWN				Depth (i	f known)			
			Wat	ter Typ	)										
ph	ı								alkal	nity	/_as_caco3_i	mgL			
ph	n_tem	p_F							hard	nes	s_as_caco3_	_mgL			
sp	ecific	gravity							hard	nes	s_mgL				
sp	ecific	gravity_te	mp_F						resis	tivit	y_ohm_cm				
tds	s_mg	L					84900		resis	tivit	y_ohm_cm_t	emp_l			
tds	s_mg	L_180C							cond	uct	ivity				
ch	loride	e_mgL					14000		cond	uct	ivity_temp_F				
so	dium	_mgL							carb	ona	te_mgL				
ca	alcium	_mgL							bicar	bor	nate_mgL			610	
iro	on_mg	gL							sulfa	te_	mgL			700	
ba	arium_	_mgL							hydro	oxic	le_mgL				
ma	agnes	sium_mgL							h2s_	mg	L				
ро	otassi	um_mgL							co2_	mg	L				
str	rontiu	m_mgL							o2_n	ngL					
ma	angar	nese_mgL	-						anior	rer	narks				
Remarks															



### SOURCE ZONE

#### GRAYBURG

IDURG									Lab ID				
API No	300250	6435							Sample	e ID	3029		
Well Name	HAWK	B 1			0'	12		Sample No					
Location	ULSTR	08	21	S 37	Е		Lat / Long	32.48788	-10				
		660	S	1980	Е		C		County	Lea			
Operator	(when sa	ampleo	d)	APACH	HE COR	PORATIO	N						
		Fie	ld	PENRO	OSE SKI	ELLY			Unit O				
Sar	nple Date			5/18/199	99	Analy	sis Date		6/8/1999				
		Sar	mple S	Sourc				Depth	(if known)				
		Wa	ater Ty	/p									
ph					6.	3	alkalinity_as_caco3_mgL						
ph_ter	mp_F						hardnes	ss_as_caco3	3_mgL				
specif	icgravity				1.01	В	hardnes	ss_mgL					
specif	icgravity_t	temp_F	-				resistivi	ty_ohm_cm					
tds_m	ıgL				18553.	1	resistivi	ty_ohm_cm_	_temp_l				
tds_m	gL_180C						conduct	tivity					
chloric	de_mgL				11206.	1	conduct	tivity_temp_F	=				
sodiur	m_mgL				6419.5	1	carbona	ate_mgL		0			
calciu	m_mgL				397.0	2	bicarbo	nate_mgL		252.464			
iron_n	ngL				1.01	В	sulfate_	mgL		102.818			
bariun	n_mgL				1.01	8	hydroxic	de_mgL					
magne	esium_mg	ιL			182.22	2	h2s_mg	βL		40.72			
potass	sium_mgL				313.54	4	co2_mg	βL					
stronti	um_mgL				11.19	В	o2_mgL	-					
manga	anese_mg	ιL					anionrei	marks					
Remarks													



#### SOURCE ZONE

Lab ID

#### **GRAYBURG-SAN ANDRES**

API No		3002504	4266											Sample	e ID	3508			
Well Nan	ne	EUNICE		UMEN	IT S	ОИТН	IU 8	90						Sample	No				
Loc	ation	ULSTR	14	20	S	36	Е			Lat / Long 32.56718					-103.31810				
			660	s	6	60	Е							County	Lea				
Оре	erator (	when sa	ampled	)	С⊦	IEVRO	ON US	SA INC.											
			Field	d	ΕU	INICE	MON	UMEN	т					Unit P					
	Sam	ple Date			1/12	/2000		A	Analys	sis Dat	is Date 1/14/2000								
			San	nple S	ourc							Dep	oth (if k	nown)					
			Wat	ter Ty	р														
ŕ	ph						6.3	38		а	alkalinity	/_as_cac	o3_mg	L					
ŗ	ph_tem	p_F									hardness_as_caco3_mgL								
5	specific	gravity					1.01	7		h	ardnes	s_mgL							
5	specific	gravity_t	emp_F							re	esistivit	y_ohm_c	m						
t	tds_mg	L					20081	.8		resistivity_ohm_cm_temp_l									
t	tds_mg	L_180C								conductivity									
c	chloride	e_mgL					1071	1		conductivity_temp_F									
5	sodium	_mgL				ł	5568.0	)7		С	arbona	te_mgL				0			
c	calcium	_mgL					1112	.6		b	oicarbor	nate_mgL	-		1342.4	4			
i	iron_m	gL					0.406	88		S	sulfate_	mgL			931.57	2			
k	barium_	_mgL					0.508	35		h	nydroxic	le_mgL							
r	magnes	sium_mg	L			4	466.80	)3		h	n2s_mg	L							
k	potassi	um_mgL				:	277.64	1		co2_mgL									
5	strontiu	m_mgL					12.20	)4		0	02_mgL								
r	mangar	nese_mg	L							а	anionrer	narks							
Remarks																			



Lab ID

## C-108 Item VII.5 - Produced Water Data BC&D Operating, Inc. - Javelina SWDs SOURCE ZONE

#### BLINEBRY

API No Well Name		300251 ALLIE N	0462 // LEE				001					Sample Sample	e ID No	4013	;	
Locati	ion	ULSTR	26	22	s	37	Е		Lat / Lo	ng	32.36184	-103				
			2310	S	S 330 E						County Lea					
Opera	tor (	when sa	ampled	I)												
			Fiel	d	BL	INEBF	RY					Unit I				
:	Samp	ole Date						Anal	ysis Date							
		Sar Wa	nple S ter Typ	ourc	DS <sup>-</sup>	г				Depth (i	if known)					
ph									alka	init	y_as_caco3_	mgL				
ph_	_temp	o_F							hard	nes	s_as_caco3_	_mgL				
spe	ecific	gravity							hard	nes	s_mgL					
spe	ecific	gravity_	temp_F						resi	tivi	ty_ohm_cm					
tds	_mgl	-					143024		resi	tivi	ty_ohm_cm_t	temp_l				
tds	_mgl	180C							con	luct	tivity					
chl	oride	_mgL					86800		con	luct	tivity_temp_F					
SOC	dium_	_mgL							carb	ona	te_mgL					
cal	cium	_mgL							bica	rboi	nate_mgL			279		
iror	n_mg	L							sulf	te_	mgL		1	500		
bar	rium_	mgL							hydi	oxio	de_mgL					
ma	ignes	ium_mg	βL						h2s	mg	ιL					
pot	tassiu	ım_mgL	-						co2_	mg	۱L					
stro	ontiur	n_mgL							o2_mgL							
ma	angan	ese_mg	βL						anic	nrei	marks					
Remarks																



#### SOURCE ZONE

Lab ID

#### **BONE SPRING**

API No		3002527	250									Sample	ID	5840		
Well Na	me	BERRY	APN S	TATE			001					Sample	No			
Lo	cation	ULSTR	05	21	s	34	Е		Lat / Long	:	32.50569	-103	-103 49786			
			1980	S	6	60	W		-			County	Lea			
Op	erator	(when sa	mpled	)	YA	TESI	PETROLE	UM COF	RPORATIO	N						
			Field	, J	BE	RRY	NORTH					Unit L				
	Sam	ple Date		1	1/18	/1999	_	Analys	is Date		12	2/1/1999				
			San	nla Sr	ouro						Depth (i	if known)				
			Wat	er Tvo	)						Deptin (i					
	nh						6.2		alkalini	itv	25 0203	mal				
	pii	_					0.2									
	pn_tem	ıp_⊦							hardne	ess	_as_caco3_	_mgL				
	specificgravity						1.123		hardne	ess	_mgL					
	specificgravity_temp_F								resistiv	/ity	_ohm_cm					
	tds_mg	βL					192871	resistivity_ohm_cm_temp_l								
	tds_mg	L_180C							conductivity							
	chloride	e_mgL					132048		conduc	conductivity_temp_F						
	sodium	_mgL					67071.2		carbon	ate	e_mgL		0			
	calcium	n_mgL					12761.8		bicarbo	ona	ate_mgL		162.835			
	iron_m	gL					96.578		sulfate	_m	ngL		444.708			
	barium <u>.</u>	_mgL					1.123		hydrox	ide	e_mgL					
	magnesium_mgL						1372.31		h2s_mgL 3.369							
	um_mgL			:	2080.92		co2_m	co2_mgL								
	strontium_mgL 554.762						554.762		o2_mg	o2_mgL 0						
	mangai	nese_mgl	L						anionre	əm	arks					
Remarks	s															



Lab ID

## C-108 Item VII.5 - Produced Water Data BC&D Operating, Inc. - Javelina SWDs SOURCE ZONE

#### DELAWARE

API No		300250	8489								Sample	ID	4296
Well Nam	е	BELL L	AKE UI	NIT			00				Sample	NO	
Loca	ation	ULSTR	30	23	S	34	Е		Lat / Long	32.27001	-103	8.51086	
			660	S	3	300	Е				County	Lea	
Oper	rator (	(when s	ampled	I)									
			Fiel	d	SW	/D					Unit N		
	Sam	ple Date	•					Anal	ysis Date				
			Sar Wa	nple S ter Ty	ourc p	UN	KNOWI			Depth (i	if known)		
pl	h								alkalinit	y_as_caco3_	mgL		
pl	h_tem	ıp_F							hardne	ss_as_caco3_	_mgL		
s	pecific	gravity							hardne	ss_mgL			
s	pecific	gravity_	temp_F						resistiv	ity_ohm_cm			
to	ds_mg	۱L					52115		resistiv	ity_ohm_cm_t	temp_l		
to	ds_mg	L_180C							conduc	tivity			
cl	hloride	e_mgL					32200		conduc	tivity_temp_F			
S	odium	_mgL							carbona	ate_mgL			
Ca	alcium	n_mgL							bicarbo	nate_mgL			451
ir	on_m	gL							sulfate	_mgL			529
ba	arium_	_mgL							hydroxi	de_mgL			
m	nagnes	sium_mę	уL						h2s_m	gL			
р	otassi	um_mgl	-						co2_m	gL			
st	trontiu	im_mgL							o2_mgl	L			
m	nangar	nese_mį	gL						anionre	marks			
Remarks													



### **DISPOSAL ZONE**

Lab ID

#### SAN ANDRES

API No		300252	3756								Sample	ID	3027
Well Nan	ne	LOU W	ORTH	٩M			006				Sample	No	
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## BC&D Operating, Inc. – Javelina 11-26-37 SWD #1

Log Cross-Section for San Andres Target Interval

Logs from 3 offsetting wells were reviewed and correlated with the subject interval as goal. Based on the correlation, BC&D is targeting an overall injection interval from approximately 3665 feet to 4765 feet which will be verified upon analyses of new logs including mudlogs.



### C-108 - Item VIII

Geological Data

The proposed well location on the Central Basin Platform, east of and adjacent to the Delaware Basin. The San Andres offers the best choice for a long-life disposal in this well bore.

Typically the basal member of the San Andres consists of dense zone of dolomite. Above this zone, in the center of the San Andres belt on the Central basin platform and the Northwestern shelf, the San Andres formation consists of limestone and arkosic sands, is up to several hundred feet thick and grades upward and away from the reef into crystalline dolomite. The texture of the dolomites becomes finer on the Northwestern shelf as the proportion of chemically precipitated dolomite increases, and anhydrite becomes present the section, first as small blobs, then as beds (Jones, 1953).

Rocks consist of porous and permeable dolomitized carbonates, limestone and finegrained sandstone. They include skeletal grainstones, dolomite, limestone, calcareous and silty sandstones, sponge and algal dolomitized limestone, dolomitized mud and wackestone, and vuggy to cavernous carbonate beds. Carbonate rocks were deposited in open to restricted platforms and platform margins associated with sea-level fluctuations, shelf-margin reef development, evaporites, and sabkha deposits. Reservoir quality is enhanced by selective dolomitization, dissolution, fracturing, and leaching. Reservoirs are contained in the Permian Guadalupian San Andres, Grayburg, Queen, Seven Rivers, and Yates Formations. Individual [formation] thicknesses may range up to hundreds of feet; overall porosities average 12 percent and permeabilities average 18 mD. (*Ball, 1995*).

The San Andres is overlain by the Grayburg and Queen formations and underlain by the Glorieta formation. Some distance is allowed between transitions as no classic sealing strata is present. However, there are some shaley trends above and below the identified interval that will enhance confinement. The perforated completion allows for essential targeting and will assist in preventing upward or downward migration of injected fluids. Overall, the requested interval of 3635 feet to 4765 feet offers good probability of achieving the average desired capacity of 15,000 bwpd.

While much of the production in the area has been plugged out, historically, producing horizons were generally in the Artesia Group including Tansil, Yates, Seven Rivers, Queen and Grayburg. There are no active producing wells within one-half mile of the proposed SWD.

# e-Permitting

# C-108 Submittal

Attachment Category

# Seismicity Analysis

For High Volume Devonian Wells

### NOT APPLICABLE TO THIS SHALLOW SWD PROSPECT

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### C-108 ITEM XI

Water Wells within Area of Review and Groundwater Information for Area

Water Well Map – 1-Mile Area of Review

Fresh Water Analysis if Applicable

Various Standard Exhibits in Support of Domestic/ Fresh Water Well Data and Groundwater Information Follow this Page...

# Javelina 11-26-37 #1 SWD – 1-Mile AOR Water Wells

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



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### **C-108 ITEM XII – GEOLOGIC AFFIRMATION**

We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.

Ben Stone, Partner SOS Consulting, LLC

Project: BC&D Operating, Inc. Javelina 11-26-37 SWD #1 Reviewed 2/08/2024

## **C-108 ITEM XIII – PROOF OF NOTIFICATION**

### IDENTIFICATION AND NOTIFICATION OF AFFECTED PARTIES

### **Exhibits for Section**

Affected Parties Map

List of Affected Parties

Notification Letter to Affected Parties

Instructions for PDF Document Access

**Proof of Certified Mailing** 

Affidavit Published Legal Notice



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### C-108 ITEM XIII – PROOF OF NOTIFICATION AFFECTED PARTIES LIST

#### ALL AFFECTED PARTIES ARE PROVIDED A NOTICE LETTER VIA US CERTIFIED MAIL CONTAINING UNIQUE 6 CHARACTER DOCUMENT ACCESS CODES FOR SECURE DOWNLOAD OF A PDF COPY OF THE SUBJECT C-108 APPLICATION. AFFECTED PARTIES MAY ALSO REQUEST A PDF COPY VIA SENT EMAIL.

"AFFECTED PERSON" MEANS THE DIVISION DESIGNATED OPERATOR; IN THE ABSENCE OF AN OPERATOR, A LESSEE WHOSE INTEREST IS EVIDENCE BY A WRITTEN CONVEYANCE DOCUMENT EITHER OF RECORD OR KNOWN TO THE APPLICANT AS OF THE DATE THE APPLICANT FILES THE APPLICATION; OR IN THE ABSENCE OF AN OPERATOR OR LESSEE, A MINERAL INTEREST OWNER WHOSE INTEREST IS EVIDENCED BY A WRITTEN CONVEYANCE DOCUMENT EITHER OF RECORD OR KNOWN TO THE APPLICANT AS OF THE DATE THE APPLICANT FILED THE APPLICATION FOR PERMIT TO INJECT.; PER OCD RULES NMAC 19.15.26.7, A. AND 19.15.26.8, B.2.

SURFACE C	DWNER		
NOTICE #	ENTITY	US CERTIFIED TRACKING	SOS DOC ACCESS
1	Willis Family Trust P.O. Box 307 Jal, NM 88252	7018 2290 0001 2038 8364	
OFFSET MI	NERALS LESSEES and/ or OPERATORS		
2	PATTERSON OPERATING & PUMPING INC DBA/PENERGY P.O. Box 50076	7018 2290 0001 2038 8371	$\boxtimes$
3	Midland, TX 79710 MARATHON OIL PERMIAN, LLC 990 Town and Country Blvd.	7018 2290 0001 2038 8388	$\boxtimes$
4	Houston TX 77024 <b>OXY USA, INC.</b> P.O. Box 50250	7018 2290 0001 2038 8395	$\boxtimes$

Midland, TX 79710-0250

#### REGULATORY

5

NM OIL CONSERVATION DIVISION 1220 S. St. Francis Dr. Santa Fe, NM 87505	Filed via OCD Online e-Permitting	
U.S. DEPARTMENT OF INTERIOR Bureau of Land Management	7018 2290 0001 2038 8401	$\boxtimes$
Oil & Gas Division 620 E. Greene St. Carlsbad, NM 88220		



Oil & Gas Accounting - Regulatory Processing Assistance - Oil Field Technical Assistance

February 12, 2024

SOS Consulting, LLC

#### NOTIFICATION TO INTERESTED PARTIES via U.S. Certified Mail – Return Receipt Requested

To Whom It May Concern:

BC&D Operating, Inc., Hobbs, New Mexico, has made application to the New Mexico Oil Conservation Division to permit for salt water disposal the Javelina 11-26-37 SWD #1. The SWD operation will be for commercial disposal for area operations. As indicated in the notice below, the well is located in Section 11, Township 26 South, Range 37 East in Lea County, New Mexico.

The published notice states that the interval will be from 3,635 feet to 4,765 feet into the San Andres formation. Following is the notice published in the Hobbs News-Sun, Hobbs, New Mexico on or about February 1, 2024.

#### LEGAL NOTICE

BC&D Operating, Inc., Hobbs, New Mexico is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to permit for salt water disposal its Javelina 11-26-37 SWD #1 (API No.30-025-TBD). The well will be located 2390 feet from the North line and 320 feet from the East line (Unit H) of Section 11, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico. Produced water from area operators' production will be commercially disposed into the San Andres formation through perforations from 3635' to 4765' at a maximum surface pressure of 727 psi, maximum daily rate of 15,000 bwpd and an average rate of 12,500 bwpd. The subject SWD well is located approximately 5.3 miles southeast of Jal, New Mexico.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (936)377-5696 or, email info@sosconsulting.us.

#### You have been identified as a party who may be interested as an offset lessee or operator.

<u>You are entitled to a full copy of the application</u>. SOS Consulting has deployed a new app for the explicit secure delivery of a full PDF copy of the application. Any user employed with <u>Affected Party</u> may log into the system and when prompted for a *Document Access Code*, enter **0000XX** to View or Download the document as desired. Using the *SOS Client and Affected Party Document Access* app takes about one minute, start to finish instructions are included, and only name, email and company name are needed to access the system.

Thank you for your attention in this matter.

Best regards,

Ben Stone, SOS Consulting, LLC Agent for BC&D Operating, Inc.

Cc: Application File

### User Information for the SOS Client & Affected Party Portal

Thank you for using the new SOS Document Portal. This system allows for the **secure delivery of all types of applications and any resulting permits**. The system is built in and stored in the cloud using the best available platforms and code for a secure and robust app. We hope you appreciate our efforts to reduce printed paper copies and deliver pertinent documents in a much more efficient way. <u>If you're a client, you may use the portal</u> to view all the applications that SOS Consulting, LLC has generated on behalf of you or your organization.



<u>Become a user of the site</u> by entering your email address and basic info for your profile – minimal information is required although we ask that you provide your company name so we may view who and which companies have reviewed a particular document.

(Please note that nothing is done with your information - it is only for access to this portal.)

Each time you log into the SOS Portal, you will be sent a pin code for **2-Step Verification** to your email within 15 seconds. Enter the code for access to the portal.



OBILE ACCESS

The SOS portal will open to your user page or the portal home. If you don't see this screen, simply click on the SOS Client & Affected Party title and the home page will open. This page allows you to enter a 'Document Access Code' or if a client, 'Enter your OGRID'. (When entering an OGRID, you will also be prompted for a Client ID for security – SOS Consulting will have already provided this to its clients.) Note: The unique Document Access Code is provided in your 'Notice Letter to Affected Parties'.



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## C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

U.S. Postal Service <sup>™</sup> CERTIFIED MAIL <sup>®</sup> RECEIPT Domestic Mail Only	U.S. Postal Service <sup>™</sup> CERTIFIED MAIL <sup>®</sup> RECEIPT Domestic Mail Only
For delivery information, visit our website at <i>www.usps.com</i> <sup>®</sup> .	For delivery information, visit our website at <i>www.usps.com</i> <sup>®</sup> .
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For delivery information, visit our website at <i>www.usps.com</i> <sup>®</sup> .	For delivery information, visit our website at <i>www.usps.com</i> <sup>®</sup> .
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LU State Postage and Fees	02/12/2024
Bureau	u of Land Management
	620 E. Greene St
	arlsbad, NM 88220
PS Form 3	ions

# Affidavit of Publication

STATE OF NEW MEXICO COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

> Beginning with the issue dated February 01, 2024 and ending with the issue dated February 01, 2024.

fur le

Publisher

Sworn and subscribed to before me this 1st day of February 2024.

thBlack

**Business Manager** 

My commission expires January 29, 2027

(Seal) TATE OF NEW MEXICO NOTARY PUBLIC GUSSIE RUTH BLACK COMMISSION # 1087526 COMMISSION EXPIRES 01/29/2027

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made. 67104420

BEN STONE SOS CONSULTING, LLC. 21 RED OAK CIRCLE POINT BLANK, TX 77364

#### LEGAL NOTICE February 1, 2024

BC&D Operating, Inc., Hobbs, New Mexico is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to permit for salt water disposal its Javelina 11-26-37 SWD #1 (API No.30-025-TBD). The well will be located 2390 feet from the North line and 320 feet from the East line (Unit H) of Section 11, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico. Produced water from area operators' production will be commercially disposed into the San Andres formation through perforations from 3635' to 4765' at a maximum surface pressure of 727 psi, maximum daily rate of 15,000 bwpd and an average rate of 12,500 bwpd. The subject SWD well is located approximately 5.3 miles southeast of Jal, New Mexico.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (936)377-5696 or, email info@sosconsulting.us. #00286999

00286999

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

OGRID:
25670
Action Number:
336821
Action Type:
[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

#### CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	4/23/2024

Page 51 of 51

Action 336821