#### STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

### APPLICATION OF FAE II OPERATING, LLC FOR APPROVAL OF A WATERFLOOD PROJECT AND TO QUALIFY THE PROJECT FOR THE RECOVERED OIL TAX RATE, LEA COUNTY, NEW MEXICO

Case No. 21118

#### FAE II OPERATING, LLC HEARING EXHIBITS

- 1 Application
- 2 Hearing Power Point Presentation
- 3 FAE II Operating, LLC New Mexico State Land Office Agreement
- 4 Form C-108
- 5 Hearing Notice Letter and Return Receipts
- 6 Affidavit of Publication
- 7 Hydrology Certification
- 8 Water Analysis Report
- 9 East West Cross Section
- 10 North South Cross Section
- 11 Type Log and Waterflood Interval
- 12 Information Regarding Releases in Project Area

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Case No.

#### APPLICATION

Pursuant to 19.15.26.8.F NMAC, FAE II Operating, LLC ("FAE") requests an order authorizing it to implement a waterflood project within the Seven Rivers formation to inject produced water for secondary recovery. FAE also requests approval to qualify the project for the recovered oil tax rate under the Enhanced Oil Recovery Act, NMSA 1978, § 7-29A-1 *et seq.* and 19.15.6 NMAC. In support of its application, FAE states the following.

1. FAE seeks authorization to implement the Arnott Ramsay Waterflood Project ("Project") by injecting produced water into the Seven Rivers formation. FAE's Application for Authorization to Inject (Division Form C-108) is attached as Exhibit A.

2. The Project will be located on State lands, and the Project area will include 640 acres, more or less, comprised of Section 32, Township 25 South, Range 37 East in Lea County.

3. FAE proposes to operate the Project. 100% of the working interests in the waterflood acreage are committed to the Project.

4. To implement the Project, FAE proposes to convert its Arnott Ramsay NCT-B #11 well from a producer to an injector. The well is located in Unit L in Section 32, Township 25 South, Range 37 East in Lea County. The proposed injection interval is located in the Seven Rivers formation at a depth of approximately 3,170 to 3,290 feet, and the proposed maximum injection

Case No. 21118 FAE II OPERATING **Exhibit <sup>#</sup>1**  rate is 800 barrels per day at a maximum injection pressure of 634 psi. Pending results of a Step-Rate Test, maximum injection pressure may increase.

5. FAE also proposes to drill and complete the following new injection wells within the Project area:

- Arnott Ramsay NCT-B #14 well, which will be located in Unit D in Section
   32, Township 25 South, Range 37 East in Lea County. The proposed injection interval is located in the Seven Rivers formation at a depth of approximately 3,100 to 3,300 feet, and the proposed maximum injection rate is 800 barrels per day at a maximum injection pressure of 620 psi. Pending results of a Step-Rate Test, maximum injection pressure may increase.
- Arnott Ramsay NCT-B #15 well, which will be located in Unit E in Section 32, Township 25 South, Range 37 East in Lea County. The proposed injection interval is located in the Seven Rivers formation at a depth of approximately 3,100 to 3,300 fect, and the proposed maximum injection rate is 800 barrels per day at a maximum injection pressure of 620 psi. Pending results of a Step-Rate Test, maximum injection pressure may increase.
- c. Arnott Ramsay NCT-B #16 well, which will be located in Unit G in Section 32, Township 25 South, Range 37 East in Lea County. The proposed injection interval is located in the Seven Rivers formation at a depth of approximately 3,050 to 3,300 feet, and the proposed maximum injection rate is 800 barrels per day at a maximum injection pressure of 610 psi.

Pending results of a Step-Rate Test, maximum injection pressure may increase.

- d. Arnott Ramsay NCT-B #17 well, which will be located in Unit J in Section 32, Township 25 South, Range 37 East in Lea County. The proposed injection interval is located in the Seven Rivers formation at a depth of approximately 3,050 to 3,300 feet, and the proposed maximum injection rate is 800 barrels per day at a maximum injection pressure of 610 psi. Pending results of a Step-Rate Test, maximum injection pressure may increase.
- e. Arnott Ramsay NCT-B #18 well, which will be located in Unit C in Section 32, Township 25 South, Range 37 East in Lea County. The proposed injection interval is located in the Seven Rivers formation at a depth of approximately 3,050 to 3,300 feet, and the proposed maximum injection rate is 800 barrels per day at a maximum injection pressure of 610 psi. Pending results of a Step-Rate Test, maximum injection pressure may increase.
- f. Arnott Ramsay NCT-B #19 well, which will be located in Unit I in Section 32, Township 25 South, Range 37 East in Lea County. The proposed injection interval is located in the Seven Rivers formation at a depth of approximately 3,050 to 3,300 feet, and the proposed maximum injection rate is 800 barrels per day at a maximum injection pressure of 610 psi. Pending results of a Step-Rate Test, maximum injection pressure may increase.

6. FAE requests that, pursuant to 19.15.26.8.F(5), NMAC, the Division permit FAE to obtain administrative approval of additional injection wells within the Project area and expand the Project without the necessity of additional hearings.

7. FAE requests that the Project be qualified for the recovered oil tax rate under NMSA 1978, § 7-29A-1 *et seq.* and 19.15.6 NMAC. The Project data includes:

- a. Number of initial producing wells: 8
- b. Number of initial injection wells: 0
- c. Number of injection wells at full development: 7
- d. Capital cost of initial additional facilities: \$600,000
- c. Estimated total initial project cost: \$7,000,000
- f. Estimated value of incremental production: \$10,000,000
- g. Estimated injection commencement date: August 1, 2020 (pending approval)
- h. Type of injected fluid: Produced water
- i. Anticipated injection volumes: 450 bwpd per well

8. The creation and operation of the Project will serve the interests of conservation, the protection of correlative rights, and the prevention of waste.

WHEREFORE, FAE requests that this Application be set for hearing on March 5, 2020 and that, after notice and hearing, the Division enter an order:

- 1. Approving the Arnott Ramsay Waterflood Project;
- 2. Designating FAE as the operator of the Project;

3. Allowing future applications for expansion of the Project and additional injection wells to be approved administratively; and

4. Qualifying the Project for the recovered oil tax rate.

Respectfully submitted,

HINKLE SHANOR LLP Dana S. Hardy Dioscoro A. Blanco P.O. Box 2068 Santa Fe, NM 87504-2068 Phone: (505) 982-4554 Facsimile: (505) 982-8623 dhardy@hinklelawfirm.com

Counsel for Forty Acres Energy, LLC

dblanco@hinklelawfirm.com

#### VERIFICATION

### STATE OF TEXAS ) ) ss. COUNTY OF HARRIS )

I, Garret Johnson, certify that I am an engineer employed by Forty Acres Energy, LLC. I have reviewed the foregoing application and state that it is true and correct to the best of my knowledge, information, and belief.

Garret Johnson

The foregoing was sworn before me on this 3<sup>rd</sup> day of February, 2020.

MW Notary Public

My commission expires: 9/11/2013



	ENERGY, MINERALS AND NATURAL     1220 South St. Francis Dr.     Revised June 10       RESOURCES DEPARIMENT     Sauta Fe. New Mexico 87505
	APPLICATION FOR AUTHORIZATION TO INJECT
1.	PURPOSE:         X         Secondary Recovery         Pressure Maintenance         Disposal           Application qualifies for administrative approval?         Yes         X         No
11.	OPERATOR:FAE II Operating, LLC
	ADDRESS. 11757 Katy Freeway, Suite 1000, Houston, TX 77079
	CONTACT PARTY: Jessica LaMarroPHONE: (832) 706-0049
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 X No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two index of any proposed injection well with a one-half mile radius e

I with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

**Oil Conservation Division** 

- VL 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

STATE OF NEW MEXICO

- 1. Proposed average and maximum daily rate and volume of fluids to be injected;
- 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, cic.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth Give the geologic name, and depth to bottom of all underground sources of drinking water taquifers containing waters with total dissolved solids concentrations of 10,000 mg I or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any,
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any ·X1 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 sources of drinking water
- Applicants must complete the "Proof of Notice" section on the reverse side of this form. XIII.
- 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 Jessical.	Marro	TITLE Geologist	
SIGNATURE	1-23/11-2		DATE 01/20/2020

DATE 01/30/2020

E-MAIL ADDRESS Jessica/a fachergyus com

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



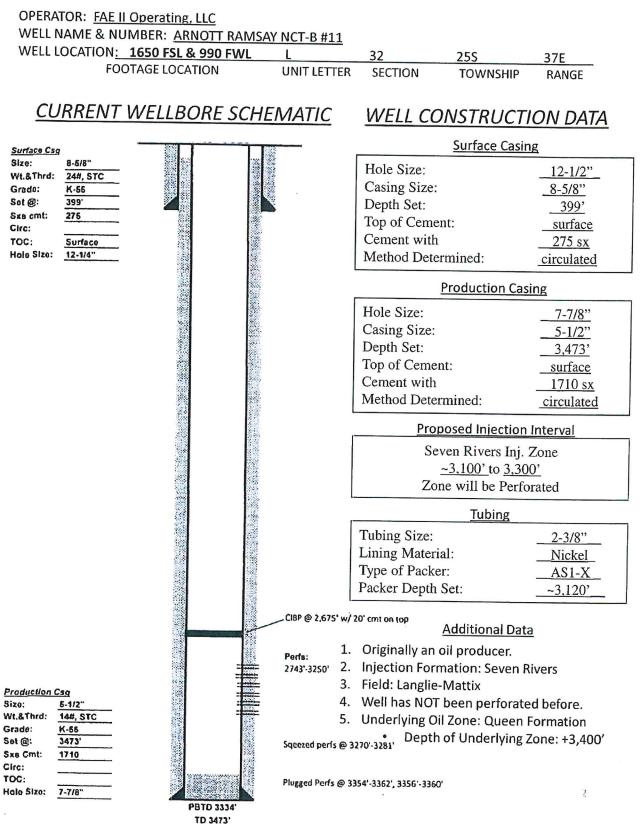
FORM C-108

Storage

Revised June 10, 2003

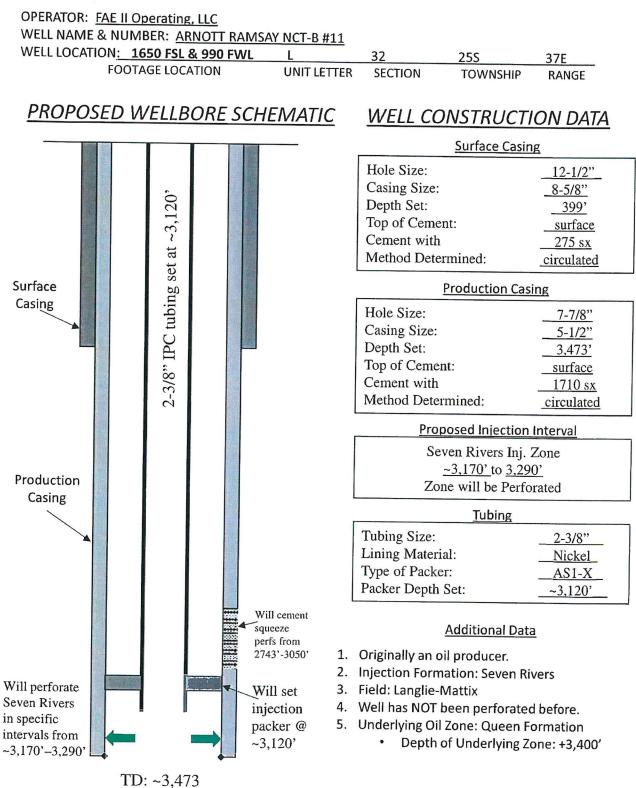
III. Well Data

### INJECTION WELL DATA SHEET



III. Well Data

### INJECTION WELL DATA SHEET



Well Name:	ARNOTT RAMSAY NCT-B #11								
Objective:	Con	vert to Injector							
Field:	Lan	glie-Mattix							
Surface Location:	1650' FSL & 990' FWL								
	Sec 32, Township 25 S, Range 3								
County, State:		NM							
API:	30-0	025-26963							
Engineer:	Garret Johnson	918-697-8311 or 832-706-0056							

#### Well Information:

Casing:

Casing Size	Weight Ib. ft.	Depth Set	Hole Size	Cement	Amount Pulled
8.625	24	399	12.5	275 sx-circ	
5.5	14	3473	7.875	1710 sx-circ	

garret@faenergyus.com

Perforations:

Тор	Bottom	SPF	Diameter	Status
2743	3050	1		Open under CIBP
3270	3273	2	0.5″	Squeezed
3278	3281	2	0.5″	Squeezed
3354	3362	2	0.5″	Plugged
3356	3360	2	0.5"	Plugged

Completion: 3270-3281' - 1200 gallons 15% slick NEFE HCl, 8 7/8" RCNB's, 10,500 gal 70 qual foam, 12,000# 20/40 sand.

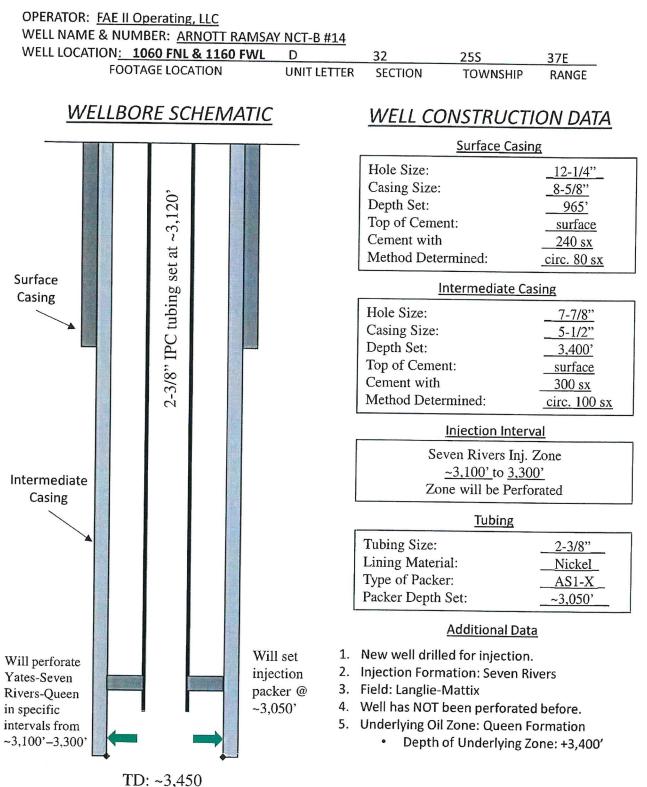
Notes: 07-05-13: set CIBP at 2675'. Dump 40' cement on top of plug. Load and test to 600 psi for 30 minutes, test held.

#### Planned Procedure:

- 1. Inspect lease roads to location to assure adequate access for work activities. Function test the wellhead valves to assure proper operation during the procedure. Locate and inspect rig anchors, test or replace anchors if necessary.
- Nipple down wellhead and close wellhead valves. Break down flow lines from the wellhead and isolate lines. Blind flange to protect the lines to prevent fluids from escaping or leaking.
- 3. Rig up reverse package, swivel. RIH with 4-3/4" bit, 4 drill collars, and 2-3/8" L-80 workstring.
- 4. Keep tally of tubing and slowly come down on top of plug at ~2635'.
- 5. Load hole with 2% KCl water, begin to circulate, drill out 40' cement plug.
- 6. Continue drilling through CIBP when metal cuttings appear on surface, back off of plug and circulate bottoms clean 2x. After circulation, continue to drill out plug.
- 7. Once through plug, continue to tally into hole until TD is reached. Report PBTD to Garret.
- 8. If TD is less than 3,390', drillout will continue.
- 9. Come out of hole laying down.
- 10. Cement squeeze interval 2743-3050.
- 11. Rig up wireline, and set CIBP at 3340'. Perforate 4 SPF interval 3170'-3290'. Use gas gun to stimulate also see attached. Rig down wireline.
- Pick up 2-3/8" ICP tubing. RIH w/ AS1X nickel coated packer and set @ 3120'. Note pressure on the backside monitor while pumping down tubing.
- 13. Rig up acid equipment. Pump 5,000 gallons 15% HCl, flush w/ 25 bbls produced water.
- 14. Swab water back into frac tank. Note top of fluid, bbl amount, and signs of gas on each run.
- 15. Rig down and move out service rig and equipment. Connect injection lines to wellhead. Clean up location as necessary.

III. Well Data

### **INJECTION WELL DATA SHEET**



III. Well Data INJECTION WELL DATA SHEET **OPERATOR: FAE II Operating, LLC** WELL NAME & NUMBER: ARNOTT RAMSAY NCT-B #15 WELL LOCATION: 2455 FNL & 1195 FWL Е 32 25S 37E FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE WELLBORE SCHEMATIC WELL CONSTRUCTION DATA Surface Casing Hole Size: 12-1/4" Casing Size: 8-5/8" 2-3/8" IPC tubing set at  $\sim$ 3,050 Depth Set: 965' Top of Cement: surface Cement with 240 sx Method Determined: circ. 80 sx Surface **Intermediate** Casing Casing Hole Size: 7-7/8" Casing Size: 5-1/2" Depth Set: 3,450' Top of Cement: surface Cement with 300 sx Method Determined: circ. 100 sx **Injection Interval** Seven Rivers Inj. Zone ~3,100' to 3,300' Intermediate Zone will be Perforated Casing Tubing Tubing Size: 2-3/8" Lining Material: Nickel\_ Type of Packer: AS1-X Packer Depth Set: ~3,050' **Additional Data** 1. New well drilled for injection. Will set Will perforate 2. Injection Formation: Seven Rivers injection Yates-Seven 3. Field: Langlie-Mattix packer @ **Rivers-Queen** 4. Well has NOT been perforated before. ~3,050' in specific 5. Underlying Oil Zone: Queen Formation intervals from Depth of Underlying Zone: +3,400' ~3,100'-3,300' •

TD: ~3,450

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III. Well Data INJECTION WELL DATA SHEET OPERATOR: FAE II Operating, LLC WELL NAME & NUMBER: ARNOTT RAMSAY NCT-B #16 WELL LOCATION: 2625 FNL & 2630 FEL 32 25S FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP WELLBORE SCHEMATIC Surface Casing Hole Size: Casing Size: 2-3/8" IPC tubing set at ~3,000' Depth Set: Top of Cement: Cement with Method Determined: Surface Casing Hole Size: Casing Size: Depth Set: Top of Cement: Cement with Method Determined:

Will perforate Yates-Seven **Rivers-Queen** in specific intervals from ~3,050'-3,300'

TD: ~3,450

Intermediate

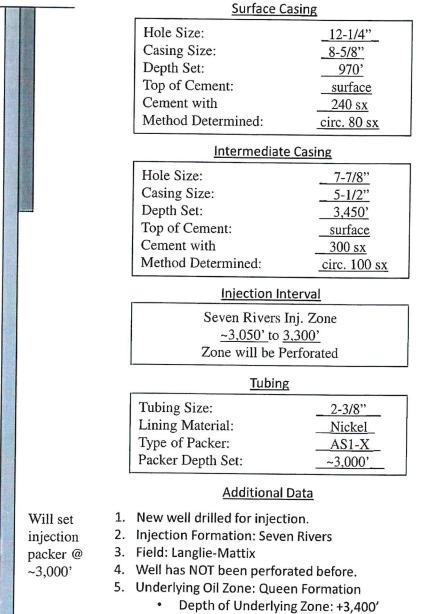
Casing

### WELL CONSTRUCTION DATA

37E

RANGE

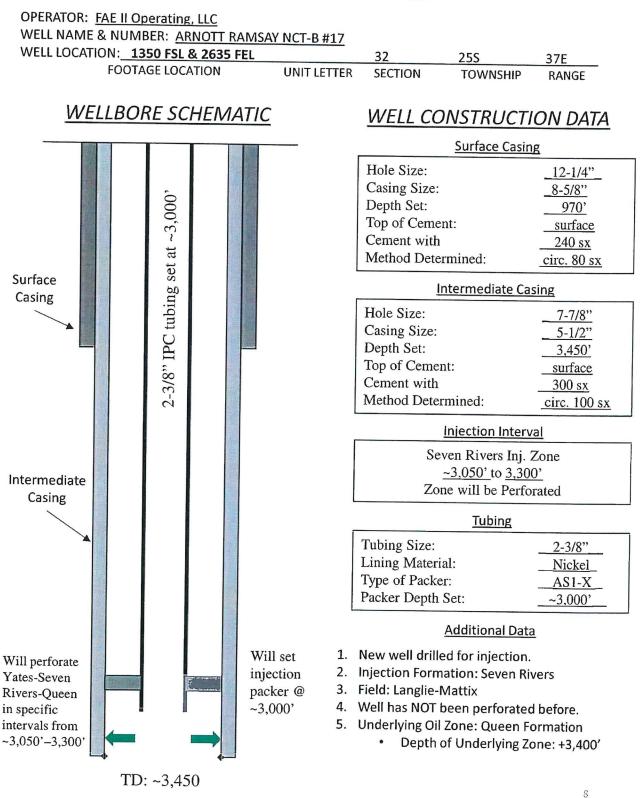
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III. Well Data

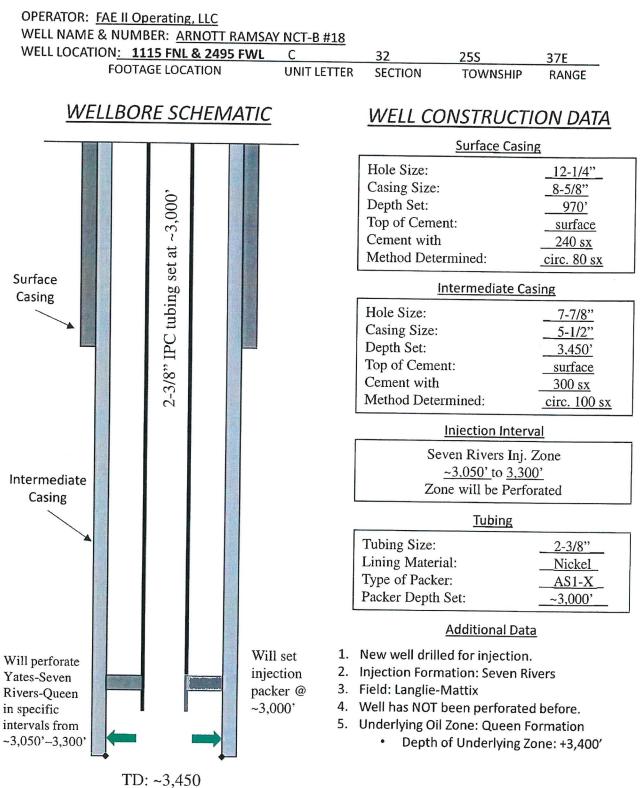
### **INJECTION WELL DATA SHEET**



III. Well Data

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### **INJECTION WELL DATA SHEET**

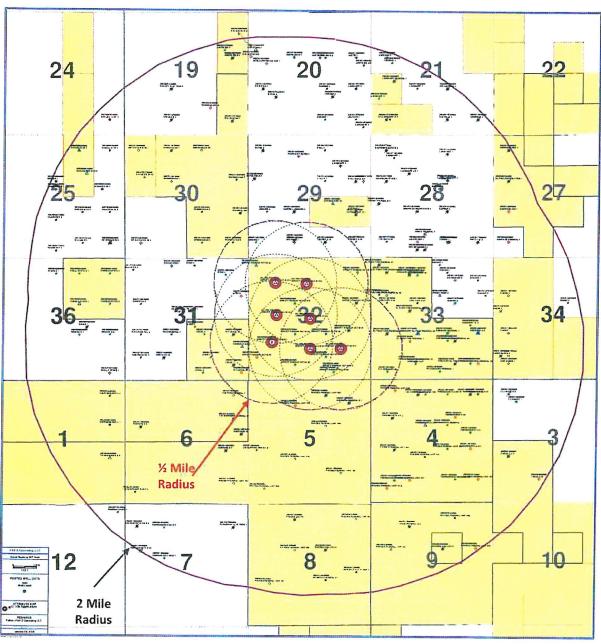


III. Well Data INJECTION WELL DATA SHEET **OPERATOR:** FAE II Operating, LLC WELL NAME & NUMBER: ARNOTT RAMSAY NCT-B #19 WELL LOCATION: 1340 FSL & 1330 FEL 32 **25**S 37E FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE WELLBORE SCHEMATIC WELL CONSTRUCTION DATA Surface Casing Hole Size: 12-1/4" Casing Size: 8-5/8" 2-3/8" IPC tubing set at ~3,000" Depth Set: 980' Top of Cement: surface Cement with 240 sx Method Determined: circ. 80 sx Surface Intermediate Casing Casing Hole Size: 7-7/8" Casing Size: 5-1/2" Depth Set: 3,450' Top of Cement: surface Cement with 300 sx Method Determined: circ. 100 sx **Injection Interval** Seven Rivers Inj. Zone ~3,050' to 3,300' Intermediate Zone will be Perforated Casing Tubing Tubing Size: 2-3/8" Lining Material: Nickel Type of Packer: AS1-X Packer Depth Set: ~3,000' Additional Data 1. New well drilled for injection. Will set Will perforate 2. Injection Formation: Seven Rivers injection Yates-Seven 3. Field: Langlie-Mattix packer @ **Rivers-Queen** 4. Well has NOT been perforated before. in specific ~3,050' 5. Underlying Oil Zone: Queen Formation intervals from ~3,050'-3,300' Depth of Underlying Zone: +3,400'

TD: ~3,450

### V.

Exhibit A shows 35 unique well locations within a ½ mile radius of the proposed new drill injector locations, and 247 unique well locations within a 2 mile radius, and all associated leases.





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1		

in Exhibit B1-B7. The plugged well wellbore diagrams are displayed in Exhibit C1-C14. drilled, location, depth, and completion date of wells within a ½ mile radius are displayed Following Exhibit A, the tabulation of the wells with each well's type, construction, date

## **Exhibit B1**

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JALMAT; TAN-YATES-7 RVRS	LANGLIE MATTIX: 7 RVRS-Q-GRAYBURG	toranolistillemon	Insting-Injection	JALMAT; TAN-YATES-7 RVRS	Location-Injection	Filipped		JALMAT: TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	Plugged	2	Location-Injection	JALWAI; JAN-YAIES-/ RVRS		SWD: DEVONIAN-SIIIIRIAN	LANGUE MATTIX; 7 RVRS-Q-GRAYBURG	rocaoon-injection	Claire Carter and Alteration	IAI MAT: TAN-VATES.7 RVBS	JALMAT; TAN-YATES-7 RVRS		CURRENT ZONE	
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O MINUSVIIVIIVI		ARNOTT RAMSAY NCT-R #11	DYER 2	AKNUTT KAMDAT NCT-B #9		ARNOTT RAMSAY NITT-R #16	JENKINS 3			IMA HAYS 1	DIENS	DVED 2	ARMOTT TAMISAY NCT-B M18	CTURN TOTAL TANK TANK	ARNOTT RAMSAY NCT. B #15	ARNOTT RAMSAY NCT-B #10		ABNOTT BAMEAV NOT B HA	ANNOTI NAMISAT INCI-8 #14	ADNOTT DANGAY NOT D HAA	WELL LABEL	
TATC	2101	TATA INC.INI/TA	3171	3450		_	3443	P/IC	1	8576	1167	TEN	_			3400	2000	DEM		+	M GI	-
LUCROIL		CINI/TA	OL	OIL	COC.IN	IOC INI	PLUGGAS	PLUGUL	DI ICOI	DRY	GAD		LOC-INJ	COC.IIII	IOC.INI	인	JWU	210	LOC-INJ		WELL TYPE	
Plugged	JALINIAL, JAN-TATES-J AVAS	INIMAT: YAN VATES THINK	JALMAT: TAN-YATES-7 RVRS	LANGUE MATTIX: 7 RVRS-Q-GRAYBURG	rocanon-infection		Plugged	Plugged		Plussed	JALMA I; JAN-YATES-/ RVRS		Incation-Iniection	UDID-SIUI-UDIDEDI		JALMAT: TAN-YATES-7 RVRS	SWU: SEVEN HIVEHS-QUEEN		Location-Injection		CURRENT ZONE	
2506	+	+	2303	2219	2142		1893	1816	TUT	1215	1664	ACAT	1436	1268		1711	1115		0		Distance	
4/6/1951	11/21/1981	and and and	17/13/1957	4/22/1980			11/20/1951	12/5/1950	ACCT ICT ITT	11/20/1056	6/26/1954				OOCT IN IN	0/5/1020	12/27/1978				SPUD DATE	
4/28/1951	1/20/1982	COTT ICH	1/3/1053	5/28/1980		100 Pre 10	5/10/1050	12/10/1951	ICET TICIT	1/31/1027	7/11/1954				NOCT INT INT	10/10/100	2/7/1979				COMP DAT	
255	255	10.7	250	255	255	500	200	255	(5)	110	255	CC7		255	667	776	255		755		SPUD DATE COMP DATE TOWNSHIP RANGE	
37E	376	3/5	375	37E	37E	310	376	37E	3/5		37E	SIE	1	37E	3/1	111	37E		375		RANGE	
30	32	10	-	32	32	6	- C	29	19		1	32		32	32	-	32	30	23		SECTION	
660 FEL 660 FSL	990 FWL 1650 FSL	SOUTEL /35 FNL		1980 FW1 1980 FS1	2625 FNL & 2630 FEL	1900 FWL /bu FSL	1000 File 300 Fr	330 FWL 660 FSL	1980 FWL 660 FSL	STOL SE INDU HE	330 EFI 1650 ENI	1115 FNL & 2495 FWL		2455 FNL & 1195 FWI	1980 FWL 1980 FNL		330 FW1 330 FN1	LUOU FIL & LIOU FWL	1000 ENI 0 1100 FINA	Settion 1	FOOTAGE	
32.095710	32.083910	32.091880	01001070	DCB/BU CE	32.086664	1 37.030000		32.095720	32.095730	00000075	020000 02	32.090808	CE-OUT AAU	27 087118	32.038470		000000 05	32.090940		SURFLAT	NAD27-	
-103.195000	-103.189610	-103.196020	-103-100+2U	-103 196430	-103,184285	-103.186480	ALONG ALONG	-103 191810	-103.186480	mecer con-	103 10000	-103.184303	Inconvent.	-	-103.186440	TOT LT TOTO	-101 101200	-103.18913.		SURFLON	NAD27-	
32.095834	32.084034	32.092004	H4649017C	AVOVED CC	32.086783	32.096124	The state of the s	1	32.095854	32.0899999	1	32.090932	747100-70		32.088594	hTTCC0'7C	1100014	-103.189133 32.091064		SURFLAT	WGS84-	
-103.195478	103,190088	-103.196498	- TU3. 180838	102 105000	-103.184763	-103.186958	0077CT'CDT.	102 103100	-103.186958	-103.194378	Ι	-103.185281	CONCETTENT-	INT INCOME	-103, 186918	0/776T CMT.	1	-103.189611		SURFLON	WGS84-	

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and the second second	FAE II Operating LLC	FAE II Operating LLC	LAC II ODEIGIIIIK LLC	EAFII Operating IIC	CIMAREX ENERGY CO OF COLORADO	FAE II Operating LLC	UWLSWD UPERALING LLC		FAE II Operating II C	FAE II Operating LLC	FUFEN UIL & CATTLE COMPANT LLC		FAE II Operating LLC	FAE II Operating LLC		FAF II Oneratine 11 C	FAE II Operating LLC	I PCH OPERATING LEC	EAE II Onersting IIC	FAE II Operating LLC	OPERATOR	
CHINAL I MAININE INCLORED		ARNOTT RAMSAY NCT-B #4	AKNUTI KAMSAY NCT-B #8			ARNOTT RAMSAY NCT-B #17	KIMBERLY SWD 1	THR		ARNOTT RAMSAY NCT-B #18	DYER 3		ARNOTT RAMSAY NCT-B #16	ARNOTT RAMISAY NCT-B #14			ARMOTT RAMSAY NCT-B #11	ARIVOT I RUMBAT NUI-8 310		ARNOTT RAMSAY NCT-B #15	WELL LABEL	
1 0000		3600	3630	t	1	_		JAUN		_	2977	+	_		00450		3473	3400		-	비	
OIL	200	SWD	OIL	LUGGHO	DILICCAC	LOC-INJ	SWD	GAS		IOC-INI	GAS	100 110	IOC-INI	LOC-INJ	UIL	2	LOC-INJ / TA	OIL		LOC-INJ	WELL TYPE	
LANGUE MATTIX: 7 KVRS-Q-GRAYBURG	JANCHE VALUE AND A DURCH AND A DURCHAN	SWID: SEVEN BIVEBS CHIEFN	JALMAT: TAN-YATES-7 RVRS	FINEBED		Location-Injuntion	SWD; DEVONIAN-SILURIAN	JALMAT: TAN-YATES-7 RVRS	TANKIN IL TANKIN	Incelling, Infantion	JALMAT; TAN-YATES-7 RVRS	unmake.unmeren	Facesting, Infection	location-Intection	LANGUE MATTIX: 7 RVRS-Q-GRAYBURG		JALMAT: TAN-YATES-7 BUBS	JALMAT; TAN-YATES-7 RVRS	universitie and	Incation-Intertion	CURRENT ZONE	
2400		7150	2145	2115	2002	20153	2005	1898	LOND	1040	1790	COCT		1768	1142	CONT	1000	956	-	•	Distance	
4/6/1979	2/61/17/71	11111111	4/26/1979	8/18/1951				4/28/1935			6/26/1954				4/22/1980	TOCT (TT /TT	11/11/1001	9/5/1980			SPUD DATE	
6/8/1979	2/1/19/9		7/19/1979	9/30/1951				8/8/1935			7/11/1954				5/28/1980	706T /07 /T	A landana	10/10/1980			COMP DAT	
255	255		255	255	667		250	255	255	604	255	255	cc3	100	255	C		755	255		SPUD DATE COMP DATE TOWNSHIP RANG	-
37	37E		371	375	JIE	3/6	375	37E	37E	215	375	37E	3/6	1	37E	3/2	110	3Ct	37E		RANGE	
32	32	JE	3	31	32	TC	2	SΕ	32	TC	-	32	32		æ	32	70	22	32	I	E SECTION	
1980 FEL 1980 FSL	330 FWL 330 FNL	1200 LAN DOD LOF	1990 EW/ 620 ECI	660 FEL 1980 FSL	1350 FSL & 2635 FEL	28/ FEL 1450 FSL	107 551 1450 551	IST USE INT OFF	1115 FNL & 2495 FW1	JULICAT TAJACE	330 EP 1050 EN	2625 FNL & 2630 FEL	1050 FNL & 1150 FWL		1920 EWI 1920 ESI	990 FWL 1650 FSL	TAN LAN LAN LAN	1000 EN/ 1000 EN	2455 FNL & 1195 FWL 32.087118 -103.188987		FOOTAGE	
DCBTBU CE	32.092990	OGT 2076	001100 00	32.084820	32.083084	32.083360	0000000	NOULSU CE	32,090808	COFERN'75		32.085664	32.090940	070400.70	UCSYAU CE	32.083910	32.088470		32.087118	NOMOR	NAD27-	
-103.127120	-103.191800	-103.186390	101 10/200	-103.194940	-103.184291	-103.193730	-103.131730	102 101720	-103,184803	-103.193900		-103.184285	-103.189133	-103.100420	103 106400	-103.189610	103.185440		-103.188987	NUMPTON	NAD27-	
WOVOU CE	32.093114	32.081314	The second	32 094944	32.083208	32.083484	17700'76	I TOTOLO	32.090932	32 089484		327387 65	32.091064	Phethem.7c		32.084034	32.088594		32.087242	JUHPLAL	WGS84-	
- Ing 19750	-103.192278	-103.186868		-103 195415	103.184769	-103.194208	-103.197706		-103.185281	-103.194378	COLLOT COT.	-103 19470	-103.18961	- 105.186899		-103,19003	-103.186918		32.087242 -103.189465	SURFLON	WGSB4-	

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	30025261050000	30025275510000	0001111	3002511862000	SU 255-37E 32CC	20006969252005	mmerarcznic		SU 255-37E 321	30025262790000	30025306550000		CI1 355 2	SU 255-37E 3288	3U 259-37E 321		30025262780000	30025267570000	30025269620000	0036 316.663 00	CII 30C.3	UWI/AP
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	HARTMAN DOYLE	FAE II Operating LLC	CITENDIA D 2 M INCORPORATED	CHEVENNIIS A INCORPORATED	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC		FAE II Operating II C	HARTMAN DOYLE	FAE II Operating LLC	FAE II Operating LLC	PAPE OF THE OWNER OF	FAE II Operating LLC	FAE II Operating LLC	I AFTI Operating the	EAEII Onersting IIC	FAE II Operating LLC	FAE II Operating LLC	rAE II Uperating LLC	SECURITY	OBEBATOB
L		ARNOTT RAMSAY NCT-8 #12	ARNUTI RAMSAY NOT B #2			ARNOTT RAMSAY NCT-B #11	ARNOTT RAMSAY NCT-B #8	AUTO I I MUNICI INCIDE IS			ARNOTT RAMSAY NCT-B #13	ARNOTT RAMSAY NCT-B #15		ARNOTT RAMSAY NCT-R #18	ARNOTT RAMSAY NCT-B #17	ARNULL HANDAY NUL-8 #6			ARNOTT RAMSAY NCT-B #10	ARNOTT RAMSAY NCT-B #16	WELL LABEL	
mer	ŝ	3620	3225	4	4	3473	3630		VIDC		3159		ļ			3600	Deve -	ANEN	3400		Ū	
LOOOL	PHICON	OIL	PLUGGAS	LOC-IN		3473 LOC-INJ / TA	OIL	LOC-INJ	FLUGUL	PI SON	DI	LOC-INJ	Children of		LOC-INJ	0			Q	LOC-INJ	WELL TYPE	
Paggura		IAI MAT: TAN-YATES-7 BURS	Plugged	rocation-injection		JALMAT: TAN-YATES-T BUBS	JALMAT; TAN-YATES-7 RVRS	Location-Injection	Plugged	SUPERIOR INTERNAL	IAI MAT. TAN. VATEC 7 BUDC	Location-Injection	Tocation-Intection		Location-Infection	LANGLIE MATTIX: 7 RVRS-Q-GRAYBURG	UANGUE MATTIX: / RVKS-U-GRAYBURG		IAI MAT: TAN. VATES. 7 BUDS	Location-Injection	CURRENT ZONE	
2373	+	arer	2205	2142	1001	1027	1944	1840	1836	1/01	i	1565	1384	0011	-	942	935	T	3	0	Distance	
12/20/1978	7967 /07 /1	4/43/4005	8/77/1955		1961/17/11	11/31/1001	4/26/1979		4/14/1979	6861/9/6	n le la no				CLER IN IL	4/6/1979	4/22/1980	CRET IC /6	of lann		SPUD DATE	
1/19/1979	7867 /97 /5	COL IC INT	10/9/1055		7967 /07 /T	CICT ICT IC	7/10/1070		7/11/1979	6861/22/6					CICE IN IN	6/9/1979	5/28/1980	0861/01/01			Distance SPUD DATE COMP DATE TOWNSHIP RAN	
255	255	677	750	255	252	202	766	255	255	255	667	150	255	252	667	750	255	255	603	750	TOWNSHIP	
77	37E	3/6	H	37E	371	3/6		Ŧ	37E	37E	3/6	1	375	37E	3/6	T	37E	ЗЛЕ	3/6	345	RANGE	
5	32	70	;	32	32	32	\$	3	32	32	32		3	32	32	3	32	32	75	3	VGE SECTION	
1650 551 330 551	1480 FEL 500 FSL	DATEL 1280 FUL		1060 FNL & 1160 FWL	990 FWL 1650 FSL	1980 FWL 660 FSL	LOND FOL OK LOOD FEL	1240 551 8 1320 551	990 FEL 2130 FSL	1980 FEL 990 FSL	2455 FNL & 1195 FWL	TAAL CONTROL TAAT	1115 ENI & 3405 ENVI	1350 F5L & 2635 FEL	1980 FEL 1980 FSL	1000 55. 2000 52.	1980 FWL 1980 FSI	1980 FWL 1980 FNL	2625 FNL & 2630 FEL		FOOTAGE	
SUCCESSION CE	32.080760	32.088500	or concerne	Direution 2E	32.083910	32.081190	32.0830/9	-	-	32.082100	32.087118	Smancor7C	+	32.083084	32.084820	01000010	DCBYBU CE	32.088470	32.086664	SURFURI	NADZZ-	
	-103.180480	-103.177890	CCTCOTTCOT.	-103 120133	103.189610	-103.186390	-103.180047	ACC. AL CONT	-103 178930	-103.182100	-103.188987	-103.184803		-103.184291	-103.182120	07400T COT.	-102 106400	-103.186440	32.086664 -103.184285 32.086788	NOLON	NAD27-	
	32.080884	32.088624	HONTEN'YE	33 notines	32.084034	32.081314	32.083203	MICLOU.3C	ישבופה נב	37 087774	32.087242	32.090932		32.083208	32.084944	346400-7C		32.088594		SURFLAT	WGS84-	
	-103.180958	-103.178368	103.189613	102 100/14	-103.190085	-103.18686£	-103.180525	ante / T'ent-	102 170400	-103 187576	103.189465	-103.185281		103 184760	-103.182598	-TUT. TRPSAR		-103 186918	-103.184763	SURFLON	WGS84-	

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FAE II Operating LLC	FACIL Operating LLC	EAGIIOnachina IIC	FAE II Operating LLC	FAE II Operating LLC	CINNER ENERGY CO OF COLORADO	CIMADEV ENERGY OD OF COLORADO	FAF II Occuping II C	HARTMAN DOYLE	LWC II Obergring LTC		EAEII Operation IIC	HARTMAN DOYLE	LWE II Obergruit Fre	EAE II Occupiere 110	FAE II Operating LLC	FAE II Operating LLC		EAE II Operation II C	FAE II Operating LLC	FAE II Operating LLC	TOP II Operating the	FAF II Operating II C	OPERATOR
AHNOTT HAMSAY NCT-B#18				ARNOTT RAMSAY NCT-B #15				ARNOTT RAMSAY NCT-B #7	AKNUTT KAMSAY NCT-8 #11			ARNOTT RAMSAY NCT-B HS	ARNUTT HAMSAY NCI-8 #19		ARNOTT RAMSAY NCT-B #16	ARNOTT RAMSAY NCT-B #8				ARNOTT RAMSAY NCT-8 #13	ANNO IT NAMOAT INCI-D #1/	ABNOTT BAMSAY NOT B #17	WELL LABEL
	3400	1440	MIF		1005	3400		3600	3473	+		3500				069E	MAG	Vere	A	3159			UI
LOC-INJ	GAS	000	GAS	LOC-INJ	PLUGGAS	CIL		PUIGOII	LOC-INJ/TA	UIL		PILIGON	LOC-INJ	100 110	IOC-INI	OIL	UIL		2	OL	LOC-INJ		WELL TYPE
Location-Injection	JALMAT; TAN-YATES-7 RVRS	NAUGS, INICO-SEVEN NIVENS	BHONES: VATES SEVEN BINEBS	location-injection	Plugged	JALMAI: IAN-YAIES-/ RVRS		Pluzend	JALMAT; TAN-YATES-7 RVRS	JALMAT: TAN-YATES-7 RVRS	- Indered	Pluread	Location-Injection	Foranon-milection	location-Injection	JALMAT: TAN-YATES-7 RVRS	LANGLIE MATTIX: 7 RVRS-Q-GRAYBURG	DANGLE MATTIA: / RVNS-U-GRATBURG	IALCHE MATTY TOUR O CONSING	JALMAT: TAN-YATES-7 RVBS	Location-Injection	1	CURRENT ZONE
2565	2487	2338	1110	2052	1968	1922	CTCT	1015	1784	1479	0745	1476	1406	QUIT	1100	997	921	016		75	0		Distance
	4/28/1935	1661/07/8	alarian		6/13/1983	9/5/1980	CICT INT IN	ALIAIAN	11/21/1981	1/13/1982	016T IN7 17T	מרמי/מרלרו				4/26/1979	4/6/1979	4/22/1980	COCT IN IC	0/6/1000			SPUD DATE COMP DATE TOWNSHIP RANG
	8/8/1935	9/20/1991	a had had		7/21/1983	10/10/1980	6/6T ITT //	ACONTANTA	1/20/1982	3/18/1982	6/6T /6T /T	· lan lanno				7/19/1979	6/8/1979	5/28/1980	COCT 17710	0/00/1000			COMP DATE
255	255	265		255	265	255	667		255	255	202		255	255	202	255	255	255	603	750	255		TOWNSHIP
37E	37E	37E		Ŧ	37E	37E	3/1		37E	37E	3/1		376	37E	210	375	37E	37E	3/6	1	37E		RANGE
32	32	5	26	3	5	32	75		CE .	32	32		CE CE	32	24	Ľ	32	32	32	;	32		E SECTION
1115 FNL & 2495 FWL	330 FWL 990 FSL	1980 FWL 1100 FNL	2433 FML & 1193 FWL	TASE ENI P. 1105 ENI	1980 FEL 660 FNL	1980 FWL 1980 FNL	990 FEL 2130 FSL		GON EWI 16CN ESI	1480 FEL 500 FSL	1650 FEL 330 FSL	and the state of the	1340 ESI & 1330 EEI	2625 FNL & 2630 FEL	TOU LAFT DOT LOF	1000 EUA 660 EEI	1980 FEL 1980 FSL	1980 FWL 1980 FSL	1980 FEL 990 FSL		1350 FSL & 2635 FEL		FOOTAGE
	32.082090	32.076350	32.05/118	37 007140	32.077570	32.088470	32.085240	-	_	32.080760	32.080290	-	-	32.086664	DGTTRD7F	_	32.084870	32.084820	32.082100		32.083084	SURFLAT	NAD27-
-103.184803	-103.191730	-103.186390	-103.18898/	102 100007	-103.182090	-103.186440	-103.178930	-Tacot Cot	103 100010	-103.180480	-103.181020	-TOOPTOUT	102 100047	-103.184285	-103.136590		-103 192120	-103.186420	-103.182100	ACT TO LO A	32.083084 -103.184291 32 083084	SURFLON	NADZZ-
32,090932	32.082214	32.076474	32.087242		TO ULLE	32.088594	32.085364	HERMONTC		32.090884	32.080414	32.003203	COLLON PC	32.086788	32.061314		17 094944	32.084944	32.082224	14.002400	BUCEBU CE	SURFLAT	WGS84
-103 18528	-103.192208	-103.186868	-103.189465	ANTTOT TOTAL	-103 19756	-103.186918	-103.179408	-103.19008		-103 190955	-103,181498	-103.1802/2		-103.184763	-103.186268	ADD. 306.0.	- 102 182506	-103.186898	-103.182578	CO.1601-07-	102 12476	SURFLON	WGS84

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Construction 1	00006259652006	SU 255-37E 3213	CONCOLUZIONE	30035761050000	30025118620000	30025118630000	0000120707000	10015151515000	1000526757000F	SU 205-37E 30FF	1	nonostal iscone	30025118340000	CONSTRUCTION OF	2002511822000	SU 255-376 32CC	0076 3/6-667 06	SI 255 375 376	30025269620000	30_23-37E_3288	CI JEC JEC JEC
TOTA NUMBER	HASTMAN DOVIE	FAE II Operating LLC	THE IL UPERATING LLC	CAE II Opensing 110	CHEVRON US & INCORPORATED	FAE II Operating LLC	FAE II Operating LLC		EAE II Operating IIC	FAE II Operating LLC	MINER COMPANY ACCOUNTS COMPANY LLC	AMERICAN INI AND DESCHIPCES COMPANY USE	BURLESON LEWIS B INCORPORATED	VINEWARY OFSETS OF FEETED	AMEDADA DI CEN P. DEEDI EC	FAE II Operating LLC	tAt II Uperating LC		FAE II Operating LLC	FAE II Uperating LLC	OPERATOR
ANNUTI RAMOAT INCI-B A/		ARNOTT RAMSAY NCT-B #17	ARNUTT RAMSAY NCT-8 #4			ARNOTT RAMSAY NCT-B #3	ARNOTT RAMSAY NCT-B #6			ARNOTT RAMSAY NCT-B #15	LRUSBY A RI	COOCDU A HI	JENKINS 3	INA HATS I		ARMOTT RAMSAY NCT-8 #14	ARNOTT RAMSAY NCT-B #16		_	ARNOTT RAMSAY NCT-B #18	WELL LABEL
SOLU	3	_	3600		3000	8797	3600	3450		_	5100		i i	9/58				3400		_	테
PLUGOIL	PURCHAN	LOC-INI	OWS	F CUGOND	DIIICAS	TA	OIL	OIL		IOC-INI	PLUGGAS		PILIGGAS	DRY	111 200	INC-INI	LOC-INJ	OIL	2	LOC-INJ	WELL TYPE
Plugged	internation and a	Institution	SWD: SEVEN RIVERS-QUEEN	ringged		TA	LANGUE MATTIX: 7 RVRS-Q-GRAYBURG	LANGUE MATTIX: 7 RVRS-Q-GRAYBURG	The start and started	Interition Infantion	Plugged	198360	Distand	Plugged	the standard and a d a st	Includes June diam	location-miection	JALMAI: JAN-YATES-7 RVRS		Location-Injection	CURRENT ZONE
2682	C007	1200	2429	2415	LOC 2	7204	2175	2055	1012	1040	1848	CODT	1000	1723	achT	1.1.1	1384	946	•	•	Distance
4/14/1979			12/27/1978	8/22/1955	0001 107 101	10/76/1000	4/6/1979	4/22/1980			2/23/1929	TC61 /07 /TT	11/10/10/1	11/29/1956				9/5/1980			SPUD DATE
7/11/1979			2/7/1979	10/9/1955	ICCT POIC	3/0/1053	6/8/1979	5/28/1980		1 1 1 1 1 1	10/24/1929	741171	Flankara	1/31/1957		I		10/10/1980			COMP DATE
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376	37E		37E	37E	3/12		374	37E	375	1	77	376		375	37E		R	37E	3/10	11	
32	32		32	32	32	: :	er c	32	32	10	20	29	1	20	32	UF.	3	32	32		SECTION
990 FEL 2130 FSL	1350 FSL & 2635 FEL		INSUE INSUE	660 FEL 1980 FNL	600 FEL 660 FNL	100 LCT 700 LCT	1960 EEI 1960 ECI	1980 FWL 1980 FSL	2455 FNL & 1195 FWL	ADDUTCL DOUTOL	1000 EEI EEN ECI	1980 FWL 760 FSL	TODA ME DOAL	1990 EW/ 650 EEI	1060 FNL & 1150 FWL	2023 FIVE 04 2030 FEE	1010 1011 0 1010 101	1980 FWL 1980 FNL	1115 FNL & 2495 FWL		FOOTAGE
32.085240	32,033064	010310.30	DOLOU LE	32.088500	32.092120	079400.70	0001000	32.084870	32.087118	04/06070	+	32.096000	00/00/70	+	32.090940	12-000004	-	32.089470	32.090808		NADZZ-
-103.178930	-103.184291	moter ent.	102 101000	-103.177890	-103.177730	-103.182120		-103 186420	-103.188987	-1U3.1822UU		-103.186480	- 103, 100400	100 100100	-103.189133	-105.184285	Changer Cor	-109 196440	103,184803	100 100	NAD27-
32.085364	32.083208	hTTCEN'7C	***COU CC	32.088624	32.092244	32.084944		27 094044	32.087242	32.095864		32.096124	32.053554	the second	32.091064	32.086788	HCCOON.3C	17 022504	32.090808 -103.184803 32.090932 -103.185281	The mark	WGS84
-103.179408	-103.184769	-1775T'COT-		-103.178368	-103.178208	-103,182598	Deconor cort.	102 195909	-103.189465	· 103.182678		-103 186958	- 103. 186958		-103.189611	-103.184763	or coor cor.	102 106010	103.185281	NON OC	WGS84-

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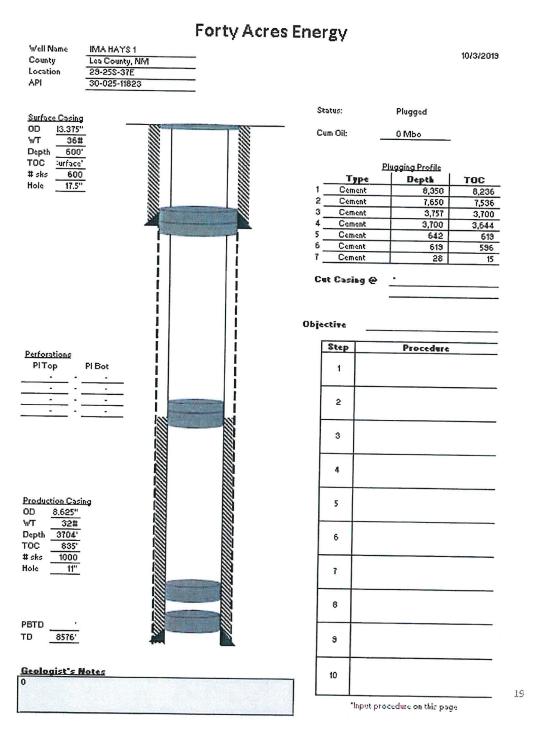
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FAE II Operating LLC	UMAREX ENERGY CO OF COLORADO	FAE II Operating LLC		FAF II Onersting IIC	EL PASO NATURAL GAS COMPANY	CIMAREX ENERGY CO OF COLORADO	CHEVADIN U S A INCORPORATED		FAF II Operating II C	FAE II Operating LLC	HARIMAN DUTLE	UADTMAN DOVIC	FAE II Operating LLC	HARIMAN DUTLE		EAE II Operating 11 C	FAE II Operating LLC	THE IL OPERATING LLC	OPERATOR	
R O GREGORY #3	EL PASO TOM FEDERAL #7				SHEPARD-FEDERAL B 3	RHODES FEDERAL UNIT #52			ADMINTT DAMEAN NOT B HIC	ARNOTT RAMSAY NCT-B #17			ARNOTT RAMSAY NCT-B #	ARNUTT RAMSAY NCT-8 #7	1		ARNOTT RAMSAY NCT-R #13	AKNUTI RAMSAY NCI-8 #19	WELL LABEL	
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OIL	PLUGOIL	OL		- LOOOD	DINGGAS	PLUGGAS	PLUGGAS	LUC-INI	100	LOC-INJ	PLUGOIL		2	PLUGOIL	OIL	OIL		LOC-INJ	WELL TYPE	
JALMAT; TAN-YATES-7 RVRS	Plugged	JALMAT; TAN-YATES-7 RVRS	LANGUE MAILIX: / RVRS-Q-GRAYBURG	riuged	Dlingod	Plugged	Plugged	rocation-injection		location-injection	Plugged	STICLE IIST IN, THE Q. ONALDONG	IANGI IE MATTIY 7 BUBS O GRAVBI IDC	Plugged	JALMAT: TAN-YATES-7 RVRS	JALMAT, JAN-TATO-/ NVNS	INIMAT: TAN VATES 7 DURS	location-Injection	CURRENT ZONE	and the second se
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25S	25S	255	255	265		265	255	255	667	755	255	(1)		255	255	255		255	TOWNSHIP	
37E	37E	37E	37E	37E		37F	37E	37E	310	H	37E	3/1		372	37E	37E		37F	im.	
ង	H	32	32	5		5	32	32	20	3	32	32		32	32	32	-	CE.	SECTION	
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## IMA Hays 1

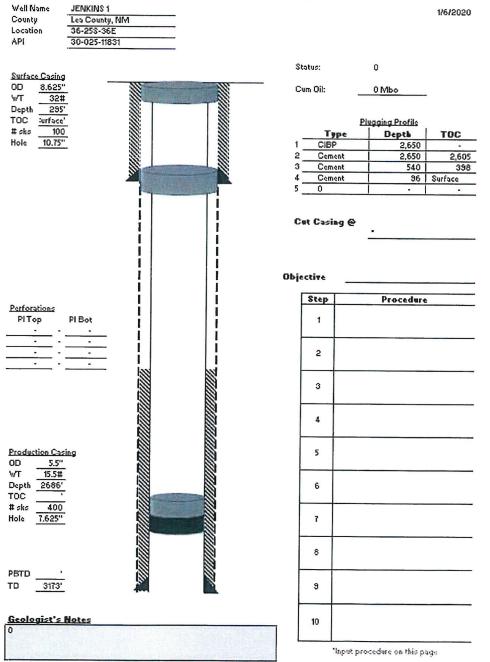
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## **JENKINS** 1

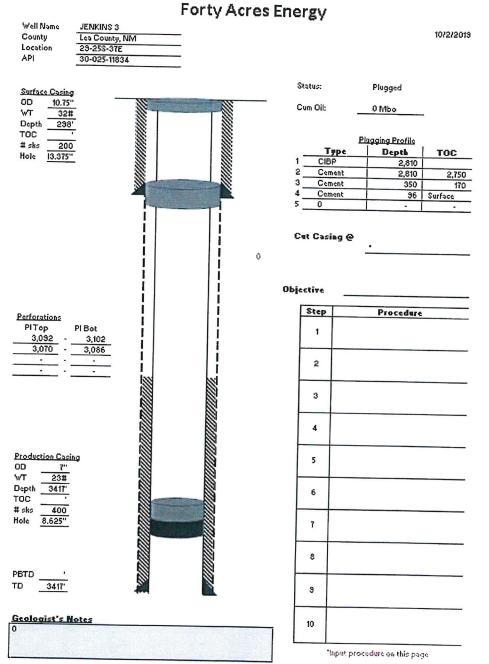
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### **Forty Acres Energy**

## JENKINS #3

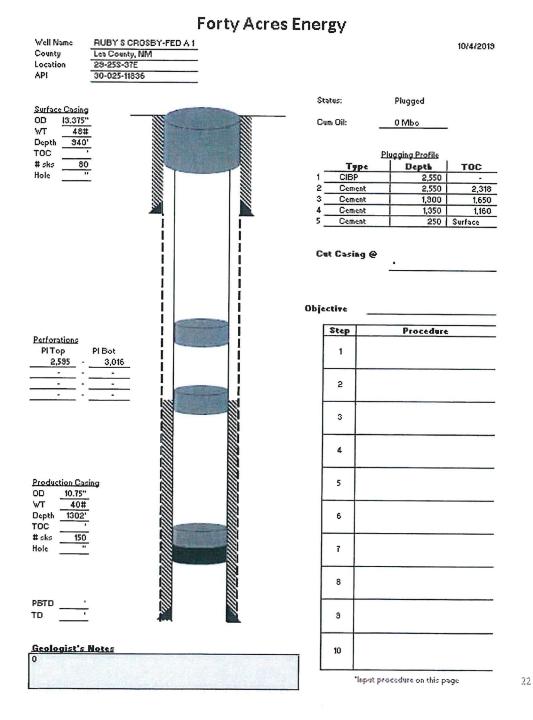
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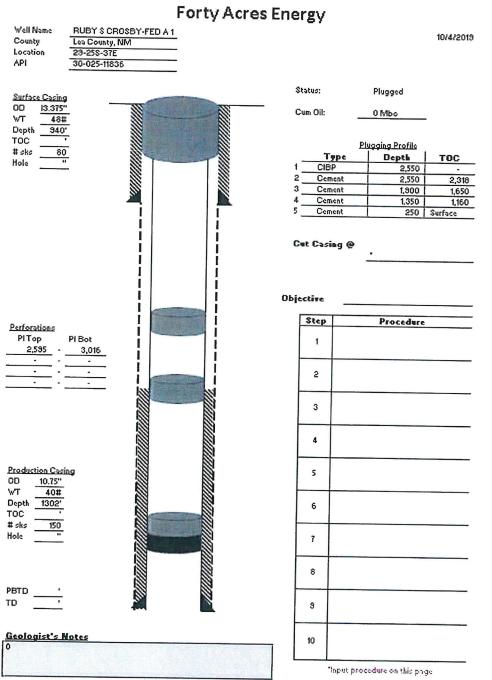
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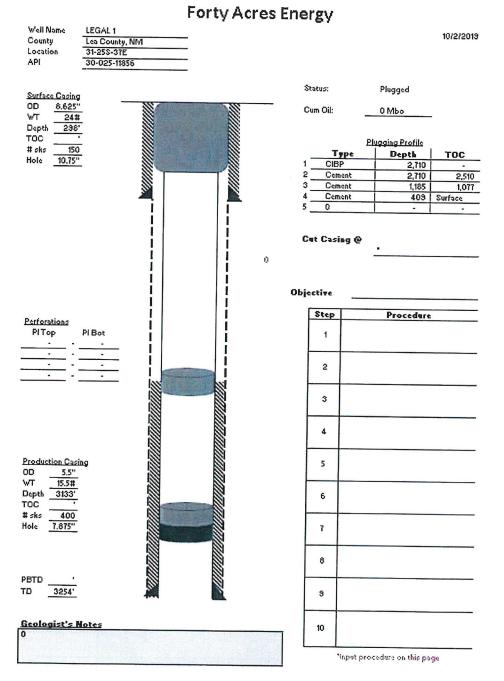
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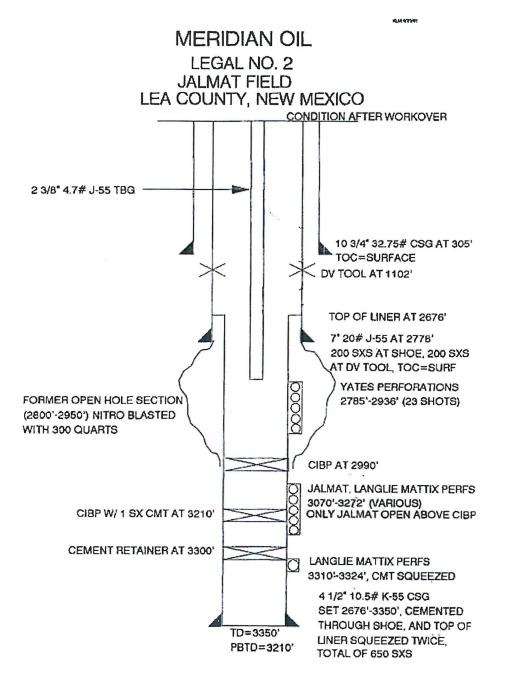
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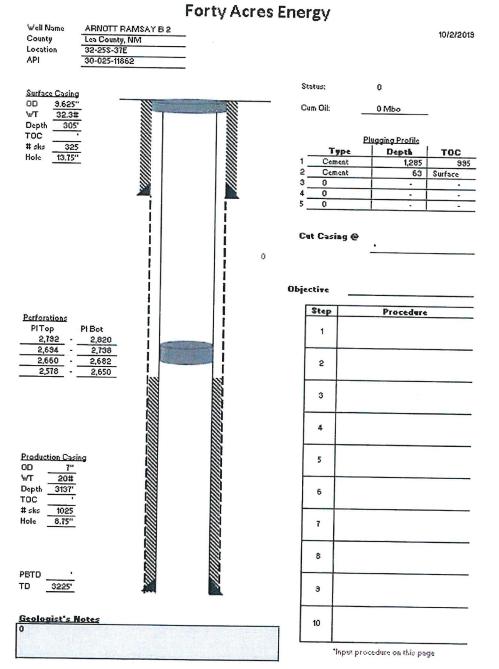
Page 30 of 57

## M F LEGAL #2

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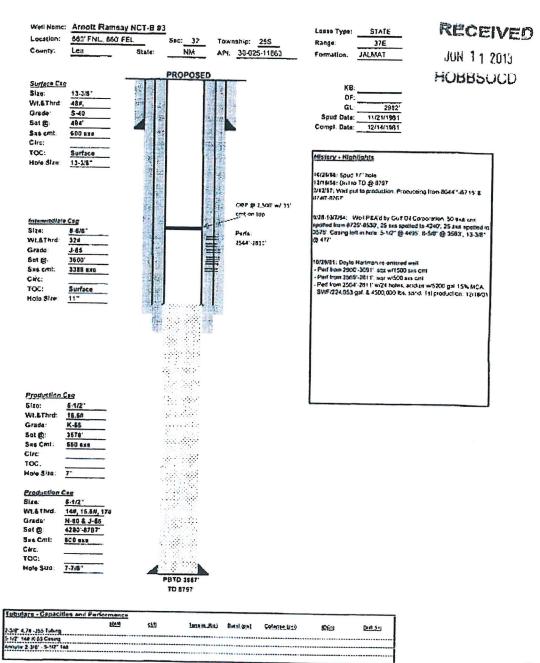


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## ARNOTT RAMSAY NCT-B #3

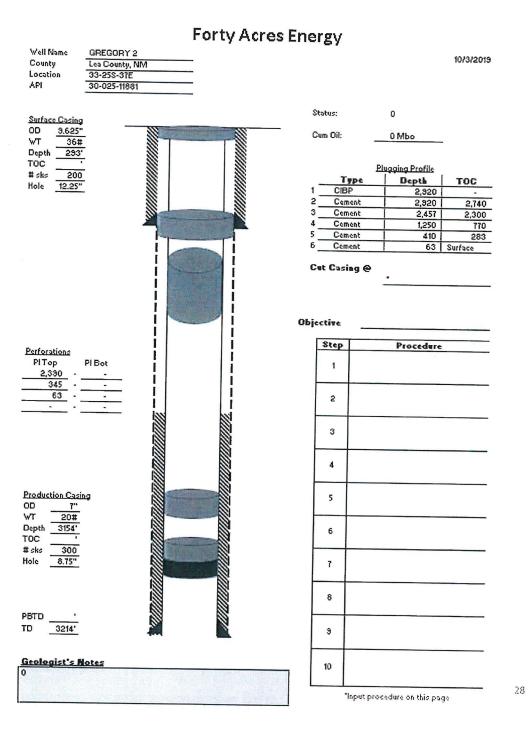
API# 30-025-11863 660 FEL 660 FNL, Sec 32, T25S, R37E Lea Co., NM



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EL PASO TOM FEDERAL #7

API# 30-025-11881 660 FEL 660 FSL, Sec 33, T25S, R37E Lea Co., NM

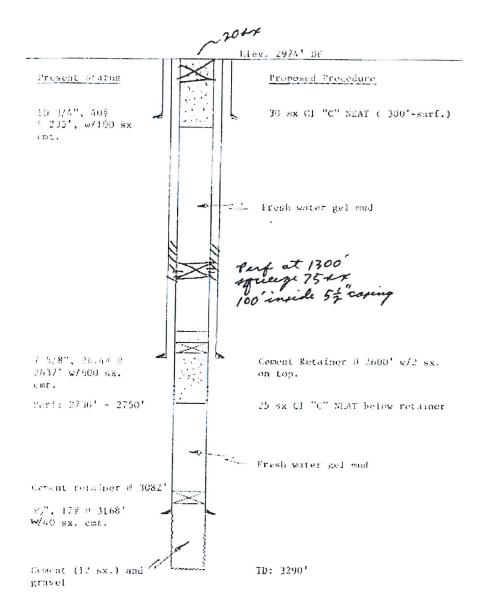


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SHEPARD-FEDERAL B 3

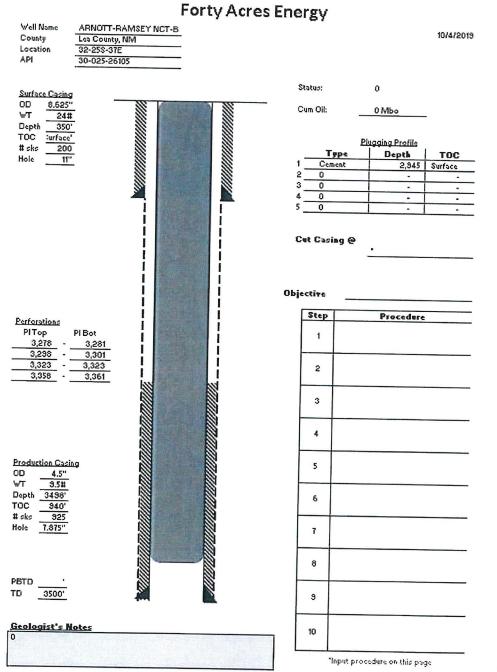
API# 30-025-11955 660 FNL 990 FEL, Sec 5, T26S, R37E Lea Co., NM

> Sheperd "3" No. 3 Lea County, New Mexico Proposed P & A Procedure



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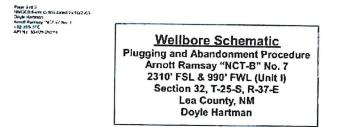
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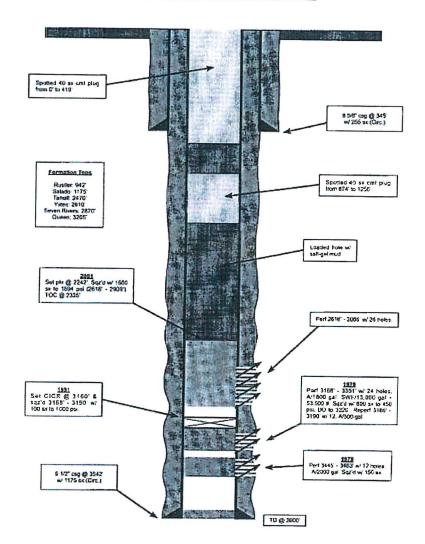


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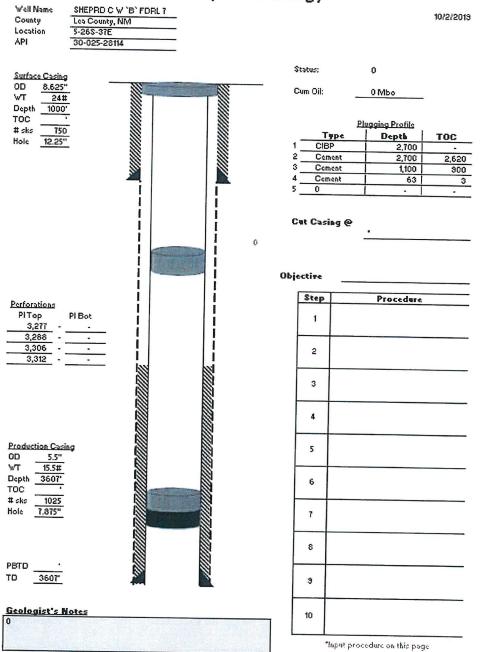
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API# 30-025-26279 990 FEL 2130 FSL, Sec 32, T25S, R37E Lea Co., NM





API# 30-025-28114 660 FEL 660 FNL, Sec 5, T26S, R37E Lea Co., NM



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**Forty Acres Energy** 

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### **VII.** Proposed Injection Operation

- 1. Average injection rate target will be ~350 bpd. Maximum injection rate will be 800 bpd. These numbers are based off of typical injection rates in nearby Yates-Seven Rivers-Queen water floods.
- 2. The system will be a closed system. The injection well will not be made available for commercial disposal purposes.
- 3. Average injection pressure will be ~600 psi. Maximum injection pressure will be calculated relative to the depth of the highest perforation, using a factor of 0.2 psi/ft. The proposed injector will have perforation depths of approximately 3,100' (or 620 psi maximum injection pressure). Pending results of a step rate test, the maximum injection pressure could potentially be increased to a factor of 0.6 psi/ft (or 1,860 psi at 3,100').
- 4. The water source will be produced water from a nearby wells and water transfer lines.
- 5. Injection will be into the Seven Rivers formation, which is immediately productive in the area.

### VIII. Geologic Data

The waterflood will be injecting into the Seven Rivers reservoir. The portion that will be injected consists mainly of sandstones interbedded with dolomites and anhydrites. The reservoir quality rocks have porosities ranging from 10% to 20% and averages around 16%.

Formation	Offset Top (ARNOTT RAMSAY NCT-B #11) 30-025-26963	Contents
Alluvium	GL	Fresh Water
Rustler	927	Anhydrite
Salado (top of salt)	1050	Salt
Tansil (base of salt)	2590	Gas, Oil, & Water
Yates	2740	Gas, Oil, & Water
Seven Rivers	2996	Gas, Oil, & Water
SR Injection Interval	3100-3300	Gas, Oil, & Water
Queen	4100	Gas, Oil, & Water
Total Depth	3950	, and a match

Formation Tops Are:

### IX. Proposed Stimulation Program

The new drill injector will be acidized with 3,000 gal 15% HCl for each set of perforations. Acid in the Seven Rivers formation is known to break down the perfs and cause injection at lower pressures vs perforating alone. The injectors will not be sand frac'd so there will be better vertical conformance.

### X. Logging and Test Data for Wells

The ARNOTT RAMSAY NCT-B #11 will be converted from a producer to an injector. The well logs for this well have been submitted to the NMOCD previously.

Test Data for the above mentioned well is as follows: <u>Date</u>: 1-20-1982 <u>Perf Interval</u>: 3270-81' w/16 holes (an interval between 3354-62' was cement squeezed) <u>Method</u>: 1200 gals 15% slick NEFE HCL, (8) 7/8" RCNB's, 10500 gals 70 qual foam, & 12000# 20/40 sand. Result: 24 hour test, 25 hbls cil, 24 hbl, and a for the second states

Result: 24 hour test, 25 bbls oil, 24 bbls water, & 64 mcf gas on 36/64" choke.

<u>Date</u>: 9-9-1999 <u>Perf Interval</u>: 2743-3050' w/25 holes (lower perfs were cement squeezed) <u>Method</u>: Acidize perfs with 7668 gal 15% MCA acid and 44 ball sealers. <u>Result</u>: 190 MCFPD and 3 BOPD

The other 6 wells will be new drill injector wells.

### XI. Chemical Analysis of Fresh Water Wells

According to records from the Office of the State Engineer (Exhibit D1-7a & D1-7b) there are between 7 and 14 active water wells within the 1 mile radius around the proposed ARNOTT RAMSAY NCT-B #11, #14, #15, #16, #17, #18, and #19. The ARNOTT RAMSAY NCT-B #14, #16, #17, and #19 have active water wells within a ½ mile radius.

FAE II Operating, LLC has obtained water analyses on 3 fresh water wells between 0.4 and 1.3 miles from the proposed injectors. The three water wells are the CP-01304, CP-01306, and CP-01308. The CP-01304, is 0.7 miles away from the AR NCT-B #11, 1 mile away from the AR NCT-B #14, 0.8 miles away from the AR NCT-B #15, 1 mile away from the AR NCT-B #16, 0.9 miles away from the AR NCT-B #17, is 1.1 miles away from the AR NCT-B #18, 1.2 miles away from the AR NCT-B #19, 459' (md) deep, with water found at 285' (md), and is considered an "artesian" water from the Dockum Aquifer. The second well, the CP-01306, is 0.8 miles away from the AR NCT-B #11, is 0.4 miles away from the AR NCT-B #14, is 0.6 miles away from the AR NCT-B #15, is 0.8 miles away from the AR NCT-B #16, is 1.0 mile away from the AR NCT-B #17, is 0.5 miles away from the AR NCT-B #18, is 1.1 miles away from the AR NCT-B #19, 458' (md) deep, with water found at 110' (md), and is considered an "artesian" water from the Dockum Aquifer. The third well, the CP-01308, is 0.8 miles away from the AR NCT-B #11, is 0.5 miles away from the AR NCT-B #14, is 0.7 miles away from the AR NCT-B #15, is 0.9 miles away from the AR NCT-B #16, is 1.1 mile away from the AR NCT-B #17, is 0.8 miles away from the AR NCT-B #18, is 1.3 miles away from the AR NCT-B #19, 420' (md) deep, with water found at 210' (md), and is considered an "artesian" water from the Dockum Aquifer. See Exhibits E1, E2, and E3.

**XII**. Based on the available geologic and engineering data, it has been determined that there is no evidence of open faults or any other hydrologic connection between the injection zone and shallow fresh water sources.

XIII. FAE II OPERATING, LLC, FULFER OIL & CATTLE COMPANY LLC, and LANEXCO INCORPORATED are the offset operators.

Well: ARNOTT RAMSAY NCT-B #11 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>990 FWL 1650 FSL</u> ~ County: Lea

XI. Exhibit D1a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 670858.442 mtrs Northing (Y): 3551170.032 mtrs

### Water Wells Within 1 Mile Radius \*\* 10 ACTIVE \*\*

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fil closed)	has bee: ned,		(	qua	urte	rs are	1=NV		3=SW 4=SI			pth to	(In fi		
		POD Sub-		~	~	-										
POD Number	Code	and the second second	County	64	Q 16	4	Sec	Tws	Rng	x	Y		DistanceDepth	What I Dan d	LATE	Water
CP 00900 POD1		CP	LE		3	4		255	37E	671613	3550794*	-	843	101	n water	Column
CP 00901 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*	-	843	96		
CP 00902 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*	6	843	95		
CP 00903 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*	6	843	95		
CP 00904 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*	6	843	97		
CP 00905 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*		843	100		
CP 00906 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*		843	102		
CP 01304 POD1		CP	LE	4	3	4	31	25S	37E	669863	3550797		1062	459	285	174
CP 01306 POD1		CP	LE	1	3	3	29	25S	37E	670622	3552502	6	1352	458	110	348
CP 01308 POD1		CP	LE	3	4	4	30	25S	37E	670086	3552295	5	1364	420	210	210
											A	erage	Depth to Water		201 f	eet
													Minimum Depth		110 f	
													Maximum Depth:		285 6	eet
Record Count: 10																
UTMNAD83 Radius S Easting (X): 6708.		meters):			12			20								
			Northi	ng	(0):	-	5511	70			Radius: 160	19.3				25
UTM location was derived he data is furnished by the			-													35

### Well: ARNOTT RAMSAY NCT-B #11 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>990 FWL 1650 FSL</u>~ County: Lea

### XI. Exhibit D1b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 670858.442 mtrs Northing (Y): 3551170.032 mtrs



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

	(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water nght file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)						V 2=NE est to lar	3=SW 4=SE Sest) (N	) AD83 UTM in :	meters)	(In	feet)	
		POD												
	POD Number	Sub- Code basin (	County		Q (		Tirs	Rng	x	Y	Distance			Water
	CP 00900 POD1	CP	LE		3 4			37E	671613	3550794*	DistanceDe 843	101	a water	Commu
	CP 00901 POD1	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🍅	843	96		
	CP 00902 POD1	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🍅	843	95		
107	CP 00903 POD1	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🍝	843	95		
Water	CP 00904 POD1	CP	LE	4	3 4	32	255	37E	671613	3550794* 🥁	843	97		
Analysis	CP 00905 POD1	CP	LE	4			25S	37E	671613	3550794*	843	100		
Available	CP 00906 POD1	CP	LE	4	34	32		37E	671613	3550794* 🥶	843	102		
0.7 Miles away	CP 01304 POD1	CP	LE	4	34	31	25S	37E	669863	3550797 🍋	1062	459	285	174
0.8 Miles away	CP 01306 POD1	CP	LE	1	33	29	25S	37E	670622	3552502	1352	458	110	343
0.8 Miles away	CP 01308 POD1	CP	LE	3 .	44	30	25S	37E	670086	3552295	1364	420	210	210
										Averag	e Depth to Wate	r	201 6	et
											Minimum Dej	pth	110 £	et
											Maximum Dep	oth <sup>.</sup>	285 £	et
	Record Count: 10													
	UTMNAD83 Radius S	earch (in meters);												
	Easting (X): 67082	53 442	Northi	ng (	Y):	35511	70		R	tadius: 1609 3				
	*UTM location was derived		-											
	The data is furnished by the i concerning the accuracy, comp	NMOSE/ISC and is accordent	cepted by ability, or	the suite	recip bility	ient v for a	with the	e express licular pu	sed understand	ding that the OSI data	EASC make no w	vairanties, exp	ressed or	implied,
	1/28/20 9:16 PM								-		WATER COLI TO WATER	UMN/AVER	AGE DEP	ТН

Well: ARNOTT RAMSAY NCT-B #14 Location: Twn 25S Rge 37E Sec 32 Footages: ~1060 FNL 1160 FWL ~ County: Lea

XI. Exhibit D2a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 670890.376 mtrs Northing (Y): 3551950.192 mtrs

### Water Wells Within 1 Mile Radius \*\* 14 ACTIVE \*\*



1/29/20 11:10 AM

### New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW # in the (R=POD has been POD suffix indicates the replaced, POD has been replaced & O=orphaned, no longer serves a water C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE) right file.) (quarters are smallest to largest) (NAD83 UTM in meters) closed) (In feet) POD Sub-000 Water POD Number Code basin County 64 16 4 Sec Tws Rng X Y DistanceDepthWellDepthWater Column CP 01306 POD1 CP LE 1 3 3 29 25S 37E 670622 3552502 613 458 110 348 CP 01302 POD1 CP LF. 3 4 4 30 25S 37E 670086 3552295 🏊 875 420 210 210 CP 01256 POD4 CP LE 3 2 3 29 25S 37E 670994 3552889 🍅 0.44 440 210 230 CP 01256 POD3 CP LE 4 1 3 29 25S 37E 670707 3552893 🚵 961 450 190 260 CP 00900 FODL CP LE 4 3 4 32 25S 37E 671613 3550794\* 🌄 1363 101 CP 00901 PODI CP LE 4 3 4 32 25S 37E 671613 3550794\* 🐸 1363 96 CP 00902 PODI CP LE 4 3 4 32 25S 37E 671613 3550794\* 1363 95 CP 00903 POD1 CP IF 4 3 4 32 25S 37E 671613 3550794\* 🚵 1363 95 CP 00904 POD1 CP LE 4 3 4 32 25S 37E 671613 3550794\* 🍝 1363 97 CP 00905 PQD1 CP LE 4 3 4 32 25S 37E 671613 3550794\* 🚵 1363 100 CP 00906 POD1 CP LE 4 3 4 32 25S 37E 671613 3550794\* 1363 102 CP 00387 CP LE 3 2 29 25S 37E 671472 3553308\* 1477 422 210 212 CP 01304 POD1 CP LF. 4 3 4 31 25S 37E 669863 3550797 📥 1544 459 285 174 CP 00774 CP LF. 1 29 25S 37E 670869 3553495\* 🍋 1544 100 60 40 Average Depth to Water 162 feet Minimum Depth 60 feet Maximum Depth 285 feet Record Count: 14 UTMNAD83 Radius Search (in meters): Easting (X): 670890.376 Northing (Y): 3551950.192 Radius: 1609.3 37 \*UTM location was derived from PLSS - see Help The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

WATER COLUMN/ AVERAGE DEPTH

TO WATER

### Well: ARNOTT RAMSAY NCT-B #14 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>1060 FNL 1160 FWL</u>~ County: Lea

### XI. Exhibit D2b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 670890.376 mtrs Northing (Y): 3551950.192 mtrs



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

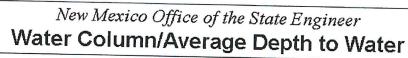
	(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water nght file.)	(R=POD has b replaced, O=orphaned, C=the file is closed)	ten					W 2=NE lest to la	3=SW 4=S.	E) NAD83 UTM in	meters)	(1)	feet)	
		PO											icel)	
	POD Number	Sub Code basi	- n County	Q 64	Q 16	Q 4 Se	c Tw	Rng	x	Y	Distance			Vater
0.4 Miles away	CP 01306 POD1	CP	LE			3 29			670622	and the second state of th	DistanceDep 613	458	thWater C 110	348
0.5 Miles away	CP 01308 POD1	CP	LE	3	4	4 30	255	37E	670036	3552295 🎽	875	420	210	
	CP 01256 POD4	CP	LE	3	2	3 29	255	37E	670994	3552889		440	210	210
	CP 01256 POD3	CP	LE	4	1	3 25	255	37E	670707	3552893	961	450	190	250
	CP 00900 POD1	CP	LE	4	3.	4 32	255	37E	671613	3550794+ 🍋	1363	101	170	200
Water	CP 00901 POD1	CF	LE	4	3 4	1 32	25S	37E	671613	3550794* 🚵	1363	96		
Analysis	CP 00902 POD1	CP	LE	4	3 4	32	25S	37E	671613	3550794+ 🍝	1363	95		
Available	CP 00993 POD1	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🍝	1363	95		
	CP 00904 POD1	CP	LE	4	3 4	32	255	37E	671613	3550794* 🍅	1363	97		
	CP 00905 POD1	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🍝	1363	100		
	CP 00906 POD1	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🍋	1363	102		
	<u>CP 00387</u>	CP	LE		32	29	25S	37E	671472	3553308* 🍅	1477	422	210	212
1.0 Miles away	CP 01304 POD1	CP	LE	4	34	31	255	37E	669863	3550797 🥏	1544	459	285	174
	CP 00774	CP	LE		1	29	25S	37E	670869	3553495* 🍅	1544	100	60	40
										Averag	e Depth to Water		182 feet	
											Minimum Dept		60 feet	
											Maximum Deptl	r	285 feet	
	Record Count: 14													
	UTMNAD83 Radius Se	arch (in meters	):											
	Easting (X): 67089	376	Northi	ng ()	¥):	3551	950 19:	2	F	ladius: 1609.3				
	+UIM location was derived i	rom PLSS - see	Help											
	The data is furnished by the N concerning the accuracy, compl	MOSE/ISC and is eteness, reliability,	accepted by wability, or	the ruita	recip bility	for .	with the	e express	ed understan	ding that the OSE data	CASC make no wa	manties, exp	reged or im	plied,
	1/29/20 11:10 AM										WATER COLUI TO WATER			

Well: ARNOTT RAMSAY NCT-B #15 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>2455 FNL 1195 FWL</u> ~ County: Lea

XI. Exhibit D3a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 670911.274 mtrs Northing (Y): 3551526.685 mtrs

### Water Wells Within 1 Mile Radius \*\* 12ACTIVE \*\*



(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fil closed)	ned,	L						W 2=NE est to la	E 3=SW 4=SE rgest) (N	E) JAD83 UTM m 1	məters)	(In 1	feet)	
		POD								Constanting of the			<b>,</b>	1001)	
POD Number	Code	Sub-	Countr	ç	9	0		-	_						Water
CP 00900 POD1	Cour	CP	County LE		3				37E	X 671613	¥ 3550794* 😜	DistanceDept		th Water	Colum
CP 00901 POD1		CP	LE		3			255	37E	671613	3550794*	1014 1014	101 96		
CP 00902 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍝	1014	95		
CP 00903 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*	1014			
CP 00904 POE1		CP	LE		3		32		37E	671613	3550794*		95		
CP 60905 POD1		CP	LE	4	3		32	255	37E	671613	3550794*	1014 1014	97		
CP 00906 POD1		CP	LE	4	3		32	255	37E	671613	3550794*	1014	100		
CP 01306 FOD1		CP	LE	1	3	3	29	255	37E	670622	3552502	1014	102		
CP 01308 POD1		CP	LE		4		30	25S	37E	670086	3552295	1127	458	110	348
CP 01304 FOD1		CP	LE	4	3	4	31	255	37E	669863	3550797	1127	420	210	210
CP 01256 FOD4		CP	LE	3	2	3	29	25S	37E	670994	3552889	1365	459	285	174
CP 01256 FOD3		CP	LE	4	1	3	29	255	37E	670707	3552893	1382	440	210	230
										010101			450	190	260
											Average	Depth to Water:		201 fe	et
												Minimum Deptl		110 fe	et
												Maximum Depth	:	285 fee	et
Record Count: 12															
UTMNAD83 Radius S	earch (in n	neters):													
Easting (X): 67091	1.274		Northi	ng	(Y)	: 3	5515	26.685	;	R	adius: 1609.3				
UTM location was derived :	from PLSS	- see He	Ъ												39
The data is furnished by the N oncerning the accuracy, comp.	МОЗЕЛІС	and is ac	cented by	the	re	cipi lity	ent v	rith the	express	sed understand	ling that the OSE	ASC make no war	ranties, expr	essed or is	nplied,
/29/20 11:20 AM						ury	101 4	ny part	icular pu	upose of the c	lata.	WATER COLUN TO WATER			

Well: ARNOTT RAMSAY NCT-B #15 Location: Twn 25S Rge 37E Sec 32 Footages: ~2455 FNL 1195 FWL~ County: Lea

### XI. Exhibit D3b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 670911.274 mtrs Northing (Y): 3551526.685 mtrs



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

	(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file )	(R=POD has been replaced, O=orphaned, C=the file is closed)							V 2=NE	3=SW 4=S) (test) (1	E) NAD83 UTM iur	neters)	(17)	(cet)	
		POD			195				Beag	ana ana			(	icely	
	POD Number	Sub-			Q										Water
	CP 00900 POD1	Code hasin CF	County LE		16		Sec 32	<b>Tws</b> 255		X	and the state of t	DistanceDep		thWater (	Column
									37E	671613	3550794* 🥎	1014	101		
	CP 00901 POD1	CP	LE	4	3	4	32	255	37E	671613	3550794* 🍑	1014	96		
Water	CP 00902 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 😜	1014	95		
Analysis	CP.00903 POD1	CP	LE	4	3	4	32	255	37E	671613	3550794* 🍑	1014	95		
Available	CP 00904 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	1014	97		
	CP 00905 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	1014	100		
	CP 00906 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍅	1014	102		
0.6 Miles away	CP 01306 POD1	CP	LE	1	3	3 2	29	25S	37E	670622	3552502 🕎	1017	458	110	348
0.7 Miles away	CP 01305 POD1	CP	LE	3	4	4 3	30	25S	37E	670086	3552295 🍅	1127	420	210	210
0.8 Miles away	CP 01304 POD1	CP	LE	4	3	4 3	31	25S	37E	669863	3550797 🥪	1277	459	285	174
	CP 81256 POD4	CP	LE	3	2	3 2	29	25S	37E	670994	3552889 🍑	1365	440	210	230
	CP 01256 POD3	CP	LE	4	1	3 2	29	25S	37E	670707	3552893 🥎	1332	450	190	260
											Average	Depth to Water		201 fee	et
												Minimum Dep	th.	110 fee	et
												Maximum Dept	h.	285 fee	et
	Record Count: 12														
	UTMNAD83 Radius S	earch (in meters);													
	Easting (X): 67091	1 274	Northi	ing (	Y):	35	515	26 685		1	Radius: 1609.3				
	*UTM location was derived	from PLSS - see He	ь												

In a data is numbered by the NMUSEJISC and is accepted by the recipient with the expressed understanding that the OSEJISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or nutability for any particular purpose of the data

1/29/20 11:20 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER Well: ARNOTT RAMSAY NCT-B #16 Location: Twn 25S Rge 37E Sec 32 Footages: ~2625 FNL 2630 FEL ~ County: Lea

XI. Exhibit D4a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671355.927 mtrs Northing (Y): 3551483.815 mtrs

### Water Wells Within 1 Mile Radius \*\* 11 ACTIVE \*\*



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the (R=FOD has been POD suffix indicates the replaced, POD has been replaced & O=orphaned, no longer serves a water (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is right file.) closed) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet) POD Sub-QQQ Water POD Number County 64 16 4 Sec Tws Rng Code basin X Y DistanceDepthWellDepthWater Column CP 00900 POD1 CP LE 4 3 4 32 25S 37E 671613 3550794\* 🗨 736 101 CP 00901 PODI CP L.E. 4 3 4 32 25S 37E 671613 3550794\* 🍝 736 96 CP 00902 POD1 CP LE 4 3 4 32 25S 37E 671613 3550794\* 🗠 736 95 CP 00903 POD1 CP LE 4 3 4 32 25S 37E 671613 3550794\* 736 95 CP 00904 POD1 CP LE. 4 3 4 32 25S 37E 671613 3550794\* 🎽 736 97 CP 00905 POD1 CP LE 4 3 4 32 25S 37E 671613 3550794\* 🍋 736 100 CF 00906 POD1 CP LE 4 3 4 32 25S 37E 671613 3550794\* 🗠 736 102 CP 01306 POD1 CP LE 1 3 3 29 25S 37E 670622 3552502 1255 458 110 348 CP 01256 POD4 CP LE 3 2 3 29 25S 37E 670994 3552889 🍅 1451 440 210 230 CP 01308 POD1 CP LE 3 4 4 30 25S 37E 670086 3552295 💊 1506 420 210 210 CP 01256 POD3 CP LE 4 1 3 29 255 37E 670707 3552893 🗨 1552 450 190 260 Average Depth to Water: 180 feet Minimum Depth: 110 feet Maximum Depth: 210 feet Record Count: 11 UTMNAD83 Radius Search (in meters): Easting (X): 671355.927 Northing (Y): 3551483.815 Radius: 1609.3 \*UTM location was derived from PL55 - see Help 41 The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data 1/29/20 11.30 AM WATER COLUMN/AVERAGE DEPTH TO WATER

### Well: ARNOTT RAMSAY NCT-B #16 Location: Twn 25S Rge 37E Sec 32 Footages: ~2625 FNL 2630 FEL~ County: Lea

### XI. Exhibit D4b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671355.927 mtrs Northing (Y): 3551483.815 mtrs



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

	(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POI replaced, O=orphe C=the fil closed)	aned,	n						V 2=NE est to lar	3=SW 4=SE gest) (N	E) JAD83 UTM in 1	meters)	(In feet)		
			POD											(III IBEL)		
	POD Number	Code	Sub- basin	County		Q 16			Tws	Rng	x	¥	DistanceDer	thWeIIDepthW:		Water
	CP 00900 POD1		CP	LE		3		32	25S	37E	671613	3550794*	736	101	ter C	olumin
	CP 00901 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	736	96		
Water	CP 00902 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 📥	736	95		
Analysis	CP 00903 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	736	95		
Available	CP 00964 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 😜	736	97		
	CP 00905 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥎	736	100		
	CP 00906 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍅	736	102		
0.8 Miles away	CP 01306 POD1		CP	LE	1	3	3	29	255	37E	670622	3552502	1255		10	240
	CP 01256 POD4	an an agrant and a second	CP	LE	3	2	3	29	25S	37E	670994	3552889	1451	Carrier and Carrier and Carrier	10	348 230
0.9 Miles away	CP 01308 POD1		CP	LE	3	4	4	30	25S	37E	670086	3552295	1506		10	210
	CP 01256 POD3		CP	LE	4	1	3	20	255	37E	670707	3552893			-	
1.0 Miles away	CP 01304 POD1		CP	Constantion of the owner	-			Concernance of the local division of the loc	255	-	and the second second	Contraction of Contract of Con	1552		90	260
in a name and y			or	LE	4	2	4	31	205	37E	669863	3550797 🍑	1643	459 2	85	174
												Average	Depth to Water:	2	01 fcc	t
													Minimum Dept.	h 1	l0 fee	t
													Maximum Depth	. 2	5 feet	t
	Record Count: 12															

UTMNAD83 Radius Search (in meters):

Easting (X): 671355.927 Northing (V): 3551483 815

Radius: 1650

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSEASC and is accepted by the recipient with the expressed understanding that the OSEASC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/29/20 11:37 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER 42

Well: ARNOTT RAMSAY NCT-B #17 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>1350 FSL 2635 FEL</u> ~ County: Lea

XI. Exhibit D5a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671362.044 mtrs Northing (Y): 3551086.897 mtrs

### Water Wells Within 1 Mile Radius \*\* 9 ACTIVE \*\*



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	L		-				V 2=NE est to lar	3=SW 4=SI gest) (1	E) NAD83 UTM in 1	neters)	(In fe	et)	
	POD											in the second		
POD Number	Sub-	in starte		Q										Water
CP 00900 POD1		County							X	A STREET ST	DistanceDept	hWellDepth	Water (	Column
2F 00900 PODI	CP	LE	4	3	4	32	25S	37E	671613	3550794* 😽	385	101		
CP 00901 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍅	385	96		
2P 00902 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	385	95		
CP 00903 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	385	95		
2P 00904 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍅	385	97		
CP 00905 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍋	385	100		
2P 00906 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 😜	385	102		
CP 01304 POD1	CP	LE	4	3	4	31	25S	37E	669863	3550797 🍝	1526	459	285	174
P 01306 POD1	CP	LE	1	3	3	29	25S	37E	670622	3552502 🍅	1596	458	110	348
										Average	Depth to Water:		197 fe	et
											Minimum Dept	h:	110 fe	et
											Maximum Depth	.:	285 fe	et
lecord Count: 9														
UTMNAD83 Radius Se	arch (in meters):													
Easting (X): 671362	2	North	ing	(Y):	3	\$510	86.897	7		Radius: 1609.3				
UTM location was derived f	from PLSS - see H	еþ											43	
he data is furnished by the N	MOSEASC and is a	ccepted by	7 the	rec	ipi	ent v	rith the	express	ed understa	nding that the OSE	ASC make no war	manties, expre	essed or i	implied
oncerning the accuracy, compl (29/20 12:09 PM	eteness, reliability, u	sability, o	r suit	abil	ity	for a	ny pari	icular pu	upose of the	e data.				

WATER COLUMN/AVERAGE DEPTH TO WATER Well: ARNOTT RAMSAY NCT-B #17 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>1350 FSL 2635 FEL</u>~ County: Lea

### XI. Exhibit D5b

44

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671362.044 mtrs Northing (Y): 3551086.897 mtrs



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

	(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)						W 2=NE est to lar	3=SW 4=SE gest) (N	) IAD83 UTM in :	meters)	(In:	reet)	
		POD									ELL'ANNE DE			
	POD Number	Sub-			Q		5 ( ) S						1.	Water
	CP 00900 POD1	Code basin ( CP	County						X	Y	DistanceDep	thWellDept	hWater C	olumn
		CF	LE	4	3	4 32	255	37E	671613	3550794* 🍯	385	101		
	CP 00901 POD1	CP	LE	4	3 .	4 32	25S	37E	671613	3550794* 🍝	385	96		
Water	CP 00802 POD1	CP	LE	4	3 4	4 32	25S	37E	671613	3550794* 🍑	385	95		
	CP 00503 FOD1	CP	LE	4	3 4	1 32	25S	37E	671613	3550794* 🍝	385	95		
Analysis Available	CP 00904 POD1	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🌍	385	97		
	CP 00905 POD1	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🍑	385	100		
	CP 00906 PODI	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🍑	385	102		
0.9 Miles away	CP 01304 POD1	CP	LE	4	34	31	25S	37E	669863	3550797 🍑	1526	459	285	174
1.0 Miles away	CP 01306 POD1	CP	LE	1	33	29	255	37E	670622	3552502 🍑	1596	458	110	348
1.1 Miles away	<u>CP 01308 POD1</u>	CP	LE	3	44	30	25S	37E	670086	3552295 🍑	1757	420	210	210
										Ачанд	e Depth to Water Minimum Dep Maximum Dept	th:	201 fee 110 fee 285 fee	t
	Record Count: 10													
	UTMNAD83 Radius S	earch (in meters):												
	Easting (X): 67136	52	Northi	ng ('	Y):	3551	086.89	7	F	ladius: 1800				
	*UTM location was derived													
	The data is furnished by the l concerning the accuracy, comp	NMOSE/ISC and is ac leteness, reliability, us	cepted by ability, or	the suita	recip bilit;	ient y for	with the	e express ticular pu	ed understan pose of the	ding that the OSE data.	EASC make no wa	urranties, exp	ressed or in	plied,
	1/29/20 12:24 PM										WATER COLU TO WATER	MN/AVERA	GE DEPT	H

### Well: ARNOTT RAMSAY NCT-B #18 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>1115 FNL 2495 FWL</u> ~ County: Lea

### XI. Exhibit D6a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671299.300 mtrs Northing (Y): 3551942.430 mtrs

### Water Wells Within 1 Mile Radius \*\* 12 ACTIVE \*\*



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fil closed)	med,	n						W 2=NE est to lar	3=SW 4=SE gest) (h	E) NAD83 UTM in :	nwiers)	(In fe	et)	
		POD								The set		A COLORADO	(111.10		
POD Number	Code	Sub- basin	County		Q			Tur	Dur	x	Y				Fater
CP 01306 POD1		CP	LE	1			29	255	37E	670622	3552502	Distance Dept 878	458	Water Co 110	<b>lumn</b> 348
CP 01256 POD4		CP	LE	3	2	3	29	25S	37E	670994	3552889 🍝	995	440	210	
CP 01256 POD3		CP	LE	4	1	3	29	25S	37E	670707	3552893	1120			230
CP 00900 POD1		CP	LE					255	37E	671613	3550794*		450	190	260
CP 00901 POD1		CP	LE					25S	37E			1190	101		
CF 00902 FOD1		CP	LE		3					671613	3550794* 🍅	1190	96		
CP 00903 POD1								25S	37E	671613	3550794* 🍑	1190	95		
		CP	LE		3		32	25S	37E	671613	3550794* 🍅	1190	95		
2P 00904 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	1190	97		
CP 00905 POE11		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍅	1190	100		
JP 00906 FOD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	1190	102		
CP 01308 POD1		CP	LE	3	4	4	30	25S	37E	670086	3552295 🍅	1263	420	210	210
CP 00387		CP	LE		3	2	29	25S	37E	671472	3553308* 🍑	1376	422	210	212
											Average	Depth to Water:		186 feet	
												Minimum Depth	Ľ	110 feet	
												Maximum Depth		210 feet	
tecord Count: 12															
UTMNAD83 Radius Se	arch (in 1	neters);													
Easting (X): 671299	9.3		Northi	ng	(Y)	: 3	5519	42.43		ŀ	Radius: 1609.3				
UTM location was derived f			-												45
he data is furnished by the N oncerning the accuracy, compl	MOSEASC	and is a	ccepted by	the	e re	cipi	ent v	rith the	express	ed understan	ding that the OSE	LASC make no war	rardies, expre	sed or imp	lied

1/29/20 10:24 AM

WATER COLUMN/AVERAGE DEPTH TO WATER

### Well: ARNOTT RAMSAY NCT-B #18 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>1115 FNL 2495 FWL</u>~ County: Lea

### XI. Exhibit D6b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671299.300 mtrs Northing (Y): 3551942.430 mtrs



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

	(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)							V 2=NE est to lar	3=SW 4=SF gest) (1	5) VAD83 UTM in	meters)	(In fe	et)	
	POD Number	POD Sub- Code basin (	ounty	Q	Q	Q									Water
0.5 Miles away	CP 01306 POD1	CP	LE			3		255	37E	670622	¥ 3552502 🍋		458	Water (	Column 348
	CP 01256 POD4	CP	LE	3	2	3	29	255	37E	670994	3552889	and the second se	440	210	230
	CP 01256 POD3	CP	LE	4	1	3	29	25S	37E	670707	3552893 🍝		450	190	260
	CP 00900 POD1	CP	LE	4	3	4	32	255	37E	671613	3550794* 🚵		101	150	200
Water	<u>CP 00901 POD1</u>	CP	LE	4	3	4	32	25S	37E	671613	3550794* 📸		96		
Analysis	CP 00902 POD1	CP	LE	4	3	4 :	32	25S	37E	671613	3550794* 🏜		95		
Available	CP 00903 POD1	CP	LE	4	3	4 3	32	25S	37E	671613	3550794* 🍝	1190	95		
Available	CP 00904 POD1	CP	LE	4	3	4 3	32	25S	37E	671613	3550794* 👄		97		
	CP 00905 POD1	CP	LE	4	3	4 3	32	25S	37E	671613	3550794* 🍛	1190	100		
	CP 00906 POD1	CP	LE	4	3	4 3	32	25S	37E	671613	3550794* 🥁	1190	102		
0.8 Miles away	CP 01308 POD1	CP	LE	3	4	4 3	80	25S	37E	670086	3552295 🍅	1263	420	210	210
	CP 00387	CP	LE	and the second	3	2 2	9	255	37E	671472	3553308* 🍅	1376	422	210	212
	CP 00506	CP	LE		ţ	2 2	9	25S	37E	671673	3553509* 🥁	1610	425	200	225
	CP 00774	CP	LE		i	1 2	9	25S	37E	670869	3553495* 🍑	1611	100	60	40
	CP 00509	CP	LE	4	1 1	2 2	9	25S	37E	671564	3553609* 🍑	1687	300	275	25
	CP 00487	CP	LE		2 1	2	9	25S	37E	671063	3553703* 🥁	1776	421	250	171
1.1 Miles away	CP.01304 POD1	CP	LE	4 :	3 4	13	1 :	25S	37E	669863	3550797 🍑	1836	459	285	174
											Averag	e Depth to Water Minimum Dep Maximum Dept	th:	200 fee 60 fee 285 fee	et
	Record Count: 17														
	UTMNAD83 Radius S	earch (in meters):													
	Easting (X): 67129	9.3	Northi	ng (	Y):	355	5194	12.43		I	Radius: 1850				
	*UTM location was derived		-											16	
	The data is furnished by the h concerning the accuracy, comp	IMOSEASC and is acc lateness, reliability, usa	epted by bility, or	the suits	reci	pien ly fo	t wi	ith the	express icular m	ed understan	ding that the OS	EЛSC make no w	arranties, expre	ssed or i	mplied,
	1/29/20 10:49 AM					,		, Part	- and pu	-pose or file	were.	WATER COLL	MNI AVERA	JE DEPT	H

WATER COLUMN/AVERAGE DEPTH TO WATER

Well: ARNOTT RAMSAY NCT-B #19 Location: Twn 25S Rge 37E Sec 32 Footages: ~1340 FSL 1330 FEL ~ County: Lea

XI. Exhibit D7a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671762.649 mtrs Northing (Y): 3551093.095 mtrs

### Water Wells Within 1 Mile Radius \*\* 7 ACTIVE \*\*



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fil closed)	ned,							V 2=NE est to la	. 3=SW 4=SE rgest) (N	[) IAD83 UTM in 1	neters)	(In feet)	
		POD											(111 1661)	
POD Number	Code	Sub-	Country			Q		-						Water
CP 00900 POD1	Cout	CP	County LE		3	4			Rng 37E	X 671613	Y 255070 4#	DistanceDepth		er Column
CP 00901 POD1		CP	LE		3			25S	37E	671613	3550794* 😋	334	101	
CP 00902 POD1		CP	LE	4	3	4	32		37E	671613	3550794*	334	96	
CP 00903 POD1		CP	LE	4	3		32		37E	671613	3550794*	334	95	
CP 00904 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*	334	95	
CF 00905 POD1		CP	LE	4	2		32	25S				334	97	
CP 00906 POD1									37E	671613	3550794* ờ	334	100	
01 00300 FOD1		CP	LE.	4	3	4	32	25S	37E	671613	3550794* 🍉	334	102	
											Average	e Depth to Water:	-	-
												Minimum Depth:	-	-
												Maximum Depth:	-	-
Record Count: 7														
UTMNAD83 Radius S	Search (in 1	neters):												
Easting (X): 6717	62.649		Northi	ng	(Y)	3	5510	)93		F	Radius: 1609.3			
*UTM location was derived													47	
The data is furnished by the concerning the accuracy, comp	NMOSE/ISC pleteness, rel	and is ac	cepted by	the	e re tabi	cipi	ent v	with the	e expres	sed understan	ding that the OSE	MSC make no warra	47 anties, expressed	or implied,
1/29/20 11:50 AM				341	aul		101 9	ny par	incutar pr	mpose of the	data.	WATER COLUM		

TO WATER

Well: ARNOTT RAMSAY NCT-B #19 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>1340 FSL 1330 FEL</u>~ County: Lea

XI. Exhibit D7b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671762.649 mtrs Northing (Y): 3551093.095 mtrs



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

	(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	L						V 2=NE 3 st to larg	=SW 4=SE est) (N	) JAD83 UTM in 1	meters)	(In fee	t)	
		POD										State of the second	(The Market and		
	POD Number	Sub-			Q										Water
	CP 00900 POD1		County							X	Y	Distance Dept	th We IIDepth	Water (	Column
Water Analysis Available	91.00/001/001	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	334	101		
	CP 00901 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	334	96		
	CP 00902 FOD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	334	95		
	CP 00903 FOD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	334	95		
	CP 00904 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍑	334	97		
	CP 00905 POD1	CP	LE	4	3 .	4	32	25S	37E	671613	3550794* 🍅	334	100		
	CP 00906 POD1	CP	LE	4	3 .	4	32	25S	37E	671613	3550794* 🍑	334	102		
1.1 Miles away	CP 01306 POD1	CP	LE	1	3 :	3	29	25S	37E	670622	3552502	1812	458	110	348
1.2 Miles away	CP 01304 POD1	CP	LE	4	3 4	4	31	25S	37E	669863	3550797 📸	1922	459	285	174
	CP 01256 FOD4	CP	LE	3	2 3	3	29	25S	37E	670994	3552889 🍅	1954	440	210	230
1.3 Miles away	CP 01302 FOD1	CP	LE	3	4 4	4	30	25S	37E	670086	3552295	2063	420	210	210
					100.00	-	-				Average	Depth to Water		203 fe	and the second second
											B	3	r		
												Minimum Dept		110 fee	
												Maximum Depth	r	285 fee	t
	Record Count: 11														
	UTMNAD83 Radius Se	earch (in meters):													
	Easting (X): 67176	2.649	Northi	ng (	Y):	35	510	93		R	adius: 2075				
	*UIM location was derived :		-												
	The data is furnished by the N	MOSE/ISC and is ac	cepted by	the	reci	ipie	nt w	ith the	expresse	understand	ting that the OSF	ASC make no way	mantine		1. 1

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/29/20 11:56 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

### XI. Exhibit E1

### MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	Imperative	Chemica	l Partne	rs			
Well Number:	Frying Pan Roa	t			Sample Temp:	70	
Lease:	CP-01304				Date Sampled:	1/24/202	n
Location	POD-1				Sampled by:	David Ga	
Date Run:	1/27/2020				Employee # :		
Lab Ref #:	20-jan-w91301				Analyzed by:	GR	
			Dissolved	Gases			
					Mg/L	Eq. Wt.	MEq
Hydrogen Sulfid	(				.00	16.00	.0
Carbon Dioxide	(CO2)			NALYZED			
Dissolved Oxyge	en (O2)		NOT A	NALYZED			
Coleine			Cation:	s.			
Calcium Magnesium	(Ca++				145.52	20.10	7.2
Sodium	(Mg++	)			69.34	12.20	5.6
Barium	(Na+)				168.10	23.00	7.3
	(Ba++	2			.05	69.70	.0
Manganese Strontium	(Mn+)				.01	27.50	.0
Strontium	(Sr++)				3.42	47.80	.0
Li colona con l			Anions				
Hydroxyl	(OH-)				00.	17.00	.0
Carbonate	(CO3=)				.00	30.00	.0
BiCarbonate	(HCO3-				268.84	61.10	4.4
Sulfate	(504=)				270.00	48.80	5.5
Chloride	(Ci-)				368.40	35.50	10.38
Total Iron	(Fe)				0.09	18.60	.00
Total Dissolved S					1,293.79		
Total Hardness a					648.09		
Conductivity MIC	ROMHOS/CM				2,174		
pH	7.890			Specific (	Gravity 60/60 F.		1.001
CaSO4 Solubility @	80 F.	19.19	IMEq/L,	CaSO4 sca	le is unlikely		
laCO3 Scale Index							
70.0	.305	100.0	655	130.0	1.165		
80.0	435	110.0	.895	140.0	1.165		
					1.105		

Imperative Chemical Partners

### XI. Exhibit E2

### MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas **79765-8538** 561-5579

Company:	Imperative	Chemic	al Partnei	5			
Well Number.	Cow Pens				Sample Temp	70	
Lease:	CP-01306				Date Sampled:	1/24/202	0
Location:	POD-1				Sampled by:	David Ga	
Date Run: Lab Ref # :	1/27/2020				Employee =		
Lad Ref # :	20-jan-w91300				Analyzed by	GR	
			Dissolved	Gasor			
			LYMMUTCH	(Juliea	Mg/L	Eq. Wt.	
Hydrogen Sulfic	de (H2S)				.00	16.00	MEq/L 00
Carbon Dioxide	(CO2)		NOT AN	ALYZED	.00	10.00	00
Dissolved Oxyg	en (O2)			ALYZED			
			Cations				
Calcium	(Ca++	)			103.64	20.10	5.16
Magnesium	(Mg++	)			87.40	12.20	7.16
Sodium	(Na+)				134.79	23.00	5.86
Barium	(Ba++)	)			.00	68.70	.90
Manganese	(Mn+)				.23	27.50	.01
Strontium	(Sr++)				.00	47.80	.00
			Amons				
Hydroxyl	(OH-)				60.	17.00	.00
Carbonate	(CO3=)				.00	30.00	.00
BiCarbonate	(HCO3-	)			268.84	61.10	4.40
Sulfate	(\$04=)				300.00	48.80	6.15
Chloride	(CI-)				271.30	35.50	7.64
Total Iron	(Fe)				0.02	18.60	.00
Total Dissolved					1.166.21		
Total Hardness a					617.44		
Conductivity MIC	CROMHOS/CM				2,008		
pH	7.710			Specific (	Gravily 60/60 F.		1.001
CaSO4 Solubility f	9 80 F.	19.4	8MEq/L,	CaSO4 sca	le is unlikely		
CaCO3 Scale Index							
70.0		100.0	.328	130.0	\$38		
80.0	.108	110.0	568	140.0	528		
90.0	.328	120.0	.568	150.0	1.068		
				100.0	1.008		

Imperative Chemical Partners

### XI. Exhibit E3

### MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	Imperative Chemical Partners									
Well Number: Lease: Location: Date Run: Lab Ref # ;	Fulfers Shop CP-01308 POD-1 1/27/2020 20-jan-w91302				Sample Temp: 70 Date Sampled. 1/24/2020 Sampled by: David Garcia Employee #: Analyzed by: GR					
			Dissolved	Gases						
ll des contra					Mg/L	Eq. Wt.	MEq/L			
Hydrogen Sulf Carbon Dioxide					.00	16.00	.00			
Dissolved Oxy	(			ALYZED						
Dissolvee Oxy	gen (02)		NOT AN	ALYZED						
			Cations							
Calcium	(Ca++)				233.64	20.10	11.62			
Magnesium	(Mg++	)			112.78	12.20	9.24			
Sodium	(Na+)				168.66	23.00	7.33			
Barium	(Ba++)				.08	68.70	.00			
Manganese Strontium	(Mn+)				.99	27.50	.04			
Scioncient	(Sr++)				4.97	47.80	.10			
			Anions							
Hydroxyl	(OH-)				.00	17.00	.00			
Carbonate	(CO3=)				.00	30.00	.00			
BiCarbonate	(HCO3-)	)			219.96	61.10	3.60			
Sulfate	(504=)				540.00	45.80	11.07			
Chloride	(C(-)				485.53	35.50	13.68			
Total Iron	(Fe)						19.00			
Total Dissolved					0.01	18.60	.00			
Total Hardness					1,766.62					
Conductivity MI					1.045.50					
					2,949					
рН	7.610			Specific C	Gravity 60/60 F.		1.001			
CaSO4 Solubility	솔 BO F.	19.78	BMEq/L,	CaSO4 sca	le is anlikely					
CaCO3 Scale Index	c.									
70.0	.144	100.0	.494	130.G	1.004					
80.0	.274	110.0	.734	140.0	1.004					
90.0	.494	120.0	734	150.0	1.234					
					1.234					

Imperative Chemical Partners



# Arnott Ramsay Lease Waterflood

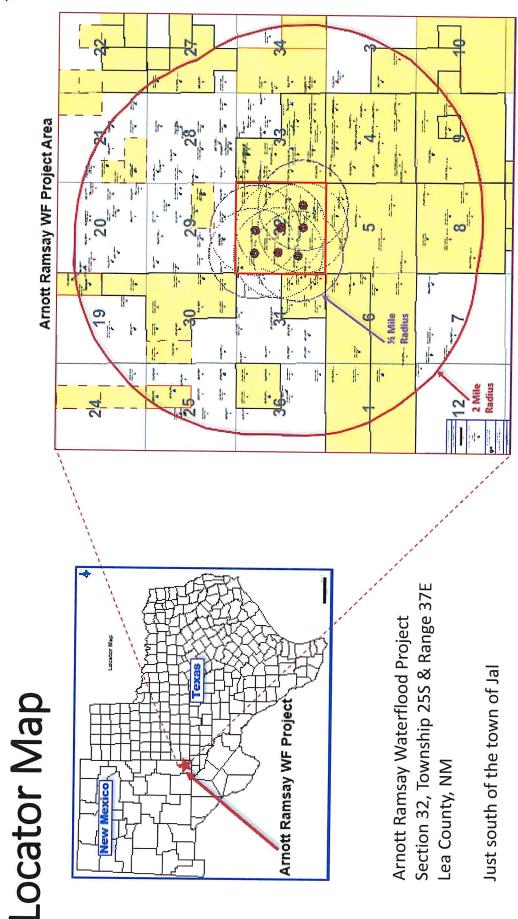
New Mexico Oil Conservation Division

March 5, 2020

Case No. 21118 FAE II OPERATING Exhibit <sup>#</sup>2 fae]]

### Land

Township 25 South, Range 37 East, NMPM Section 32: All Lea County, NM fae



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# Offset Operators and Notice Summary

## Offset Operators

- Township 27 South, Range 37 East
  - Section 28 All wells plugged & abandoned
- Section 29 FAE II Operating, LLC
- Section 30 FAE II Operating, LLC
- Section 31 FAE II Operating, LLC; Fulfer Oil & Cattle Company, LLC
  - Section 33: FAE II Operating, LLC; Lanexco Inc.
- Township 26 South, Range 37 East
  - Section 4 FAE II Operating, LLC
- Section 5 FAE II Operating, LLC
- Section 6 FAE II Operating, LLC

### Notices

- United States Department of the Interior, Bureau of Land Management.
  - Fulfer Oil & Cattle Company, LLC
    - New Mexico State Land Office
- Lanexco Incorporated
- Notice by Publication was given:
- Hobbs Sun, published Wednesday, February 5, 2020
  - Jal Record, published Thursday, February 6, 2020
- Affidavits of Publication and records of transmittal for notices are included in Hearing Exhibits.

Land Plat and Summary

fae

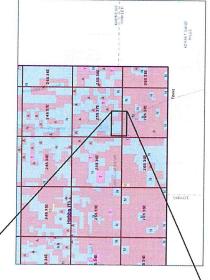
Township 25 South, Range 37 East, Section 32, Lea County, New Mexico

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/		Lines	10		1	<u> </u>			
15	11	n j	a) a)	NMC CC	a a	New Construction	900 900	Ì	
NÉRE (1)	(a) 3835	N SK	派化 (H)	S M	Se C	NDE	and		
3 C	Notes (O)	NUMAE (B)	SWIE (G)	and the second	(0)	NAMAGE (B)	Miles Miles	10 T m	1.2 km
Netton (K)	MS (N)	(D)	ME.	KESK (K)	star N)	NGW (C)	15 18	1:18,056 0.35	90
E	soso (a)	(a)	source (E)	N. C.	12	100	le la	21.0	6.0
ŝ	3 E	Mane (v)	100 July	iter C	8 (a)	No.	100 M	0	0
E	E	MARC (B)	¥9	¥2	¥0	Min (B)	10 NS		
₿¥	(R)	11150V (C)	Į€	∦£	₩E	Nement (C)	e mass (F) (E)		
10020 (1)	Secon ( m)	MANNA (D)	Serier (E)	KANSAV (1)	(H) MSM	(D)	(E) 100000 1011		
¥€	200 200	NDK (¥)	806 (H)	N S	808 (P)	NON (V)			
INVEC (T)	(o) Block	(B)	3668 101	inve C)	(0)	Mann ( G )			
N.S.	8	Millin (c)	MIN CO	NC BM (K)	12	1 <u>0</u>			
з	3	5	3	5	2	5	<b>3</b> 3	2/17/2020 1:06:45 PM	
BN C	8 36	že.	Sent (H)	19	編成 (P)	NDR (V)	5 88 Ne	2/17/20.	

New Mexico Of Construction Drus or New Mexico Of Convention Drus or New Mexico Of Convertion Drus of New Mexico Of New Mexico Of Convertion Drus of New Mexico MOCD ON

Sources Exh. PERE, Gamm. Kremus moreneer P. BLO, USS, FAQ, IPS, IJPSAN, Coedawa, IZM, L. Domane Source Bar Japan, VET, Eric Chara (Hong I. OpenStredMap. surebation; and the GS User



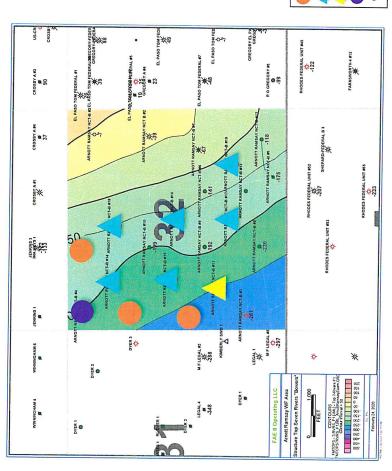
- Mineral Estate:
- 100% State of New Mexico
- Leasehold Estate:
- Minerals leased under State of NM Lease B0-0229-0001
- FAE II, LLC owns 100% working interest as to Township 25 South, Range 37 East. ī
- Royalty Estate:
- 12.5% lease royalty, in favor of the State of New Mexico.
  - No overriding royalties.

S

## Geology

## Structure Map

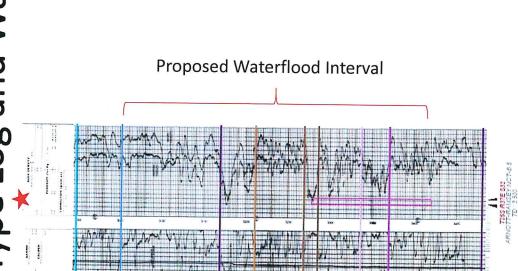
## Structure Top Seven Rivers "Bowers"



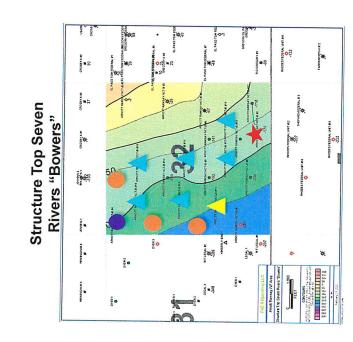
- Structure is smoothly grading updip from west to east
- Dip is more moderate vs West Eumont Unit and like West Eumont Unit, will waterflood well
- All injectors will be bounded by producers, which will retain all State Land Office oil within the section



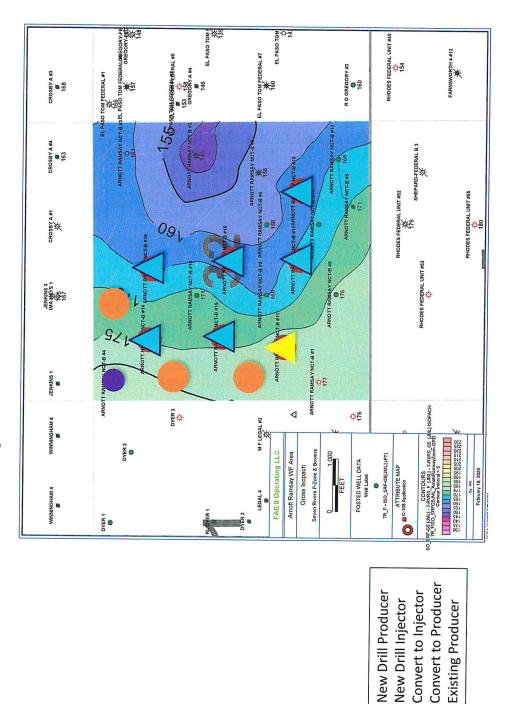




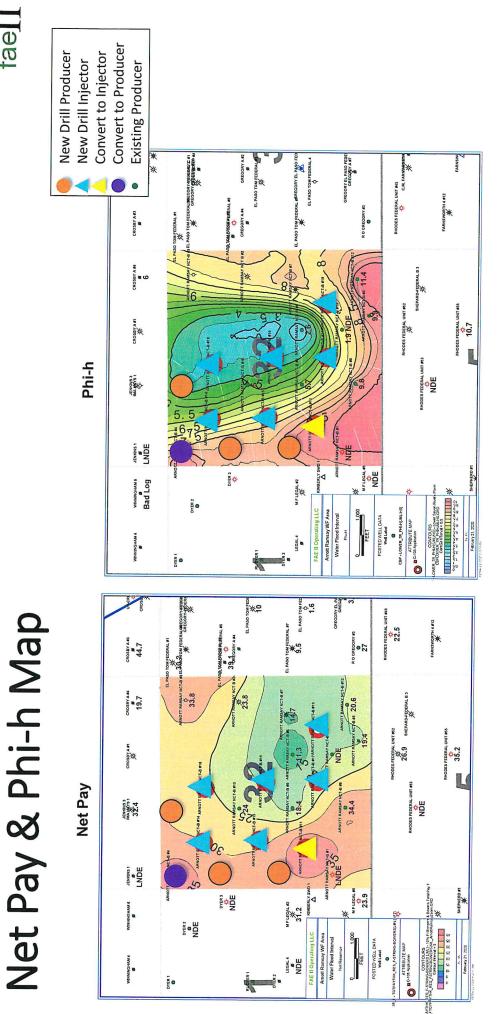
- Type log: Arnott-Ramsey NCT-B 5
- Shown in red star on the structure map
- The proposed Seven Rivers waterflood interval 3,051' 3,420'



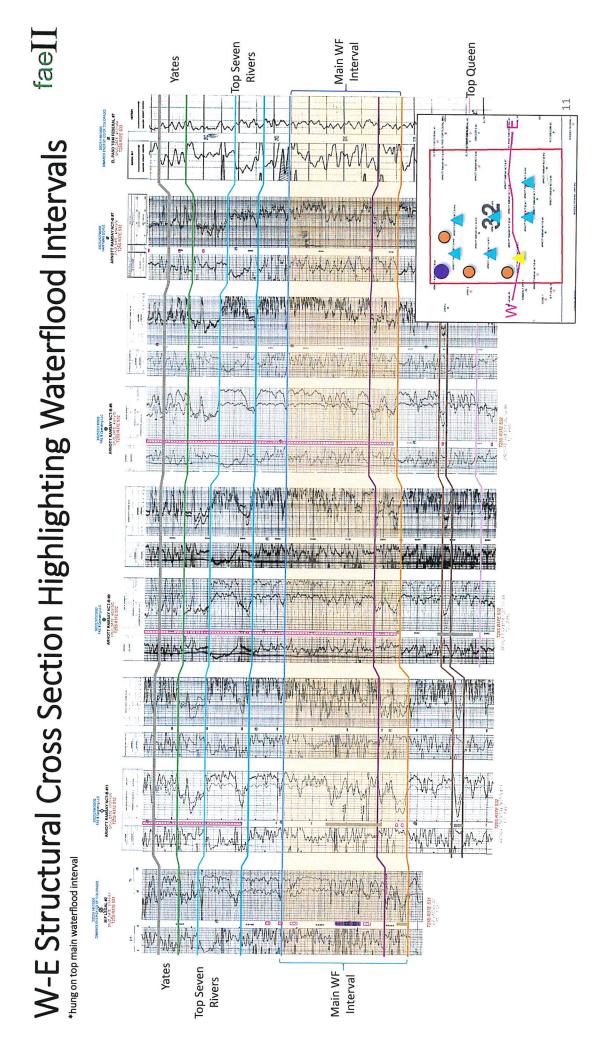
Gross Isopach Map — Top Seven Rivers "F" to Base Bowers



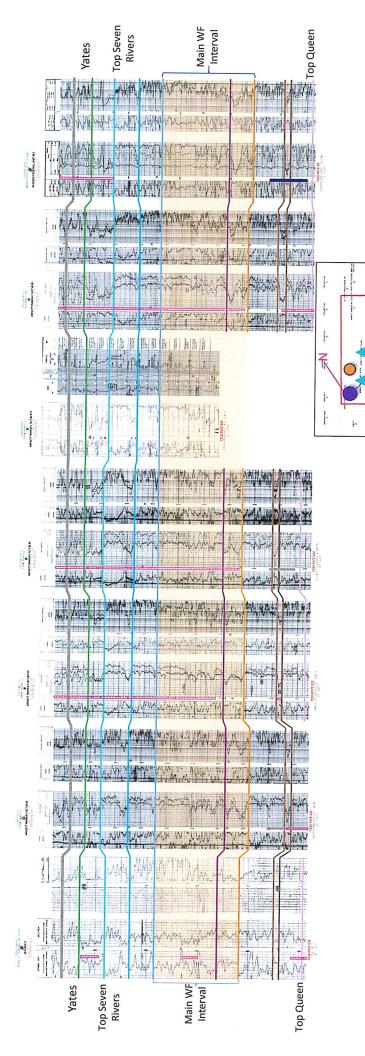
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fae N-S Structural Cross Section Highlighting Waterflood Intervals



12

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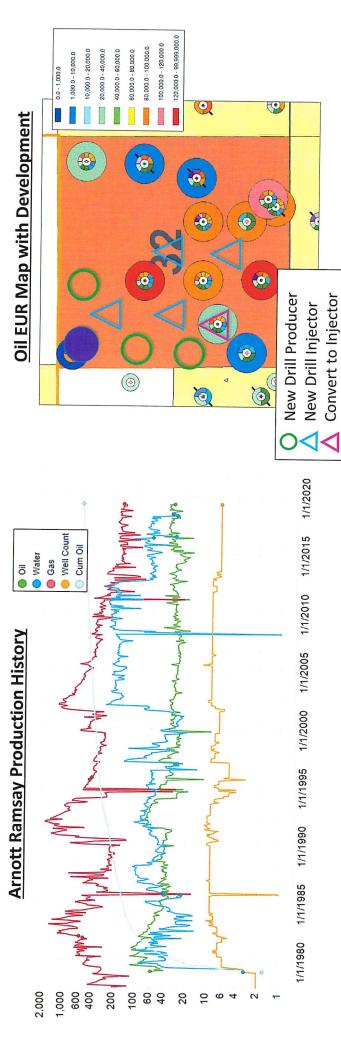
faeII

## Engineering

13



fae



- Fairly recent vintage initial development (~1980)
- A lot of OOIP (~8.6 mmbo)and low current recovery factor (9.4%) due to lack of both development to the north and waterflooding

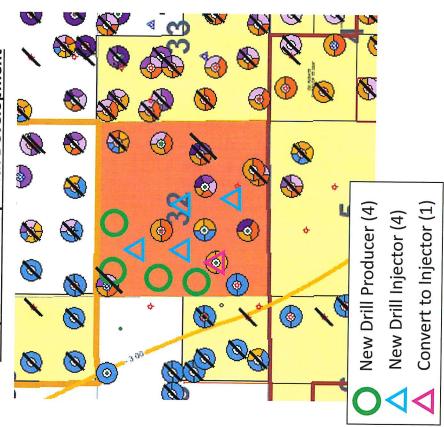
**Convert to Producer** 

- Most wells have been flat over the last 40 years
- Significant primary reserves remaining: bigger than typical gap between current oil cum and primary EUR

fae

# **Arnott Ramsay Waterflood Pilot Capital Summary**



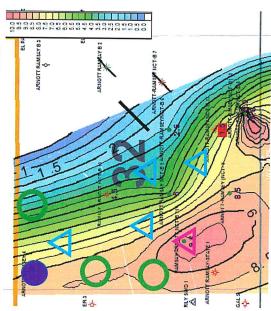


# **Completion Pie Map with Development**

			-1
	Unit Capital	# Projects	Total Capital
New Drill Producers	\$645m	4	\$2.6mm
New Drill Injectors	\$550m	4	\$2.2mm
Convert to Injector	\$200m	1	\$0.2mm
Producer Work	\$140m	5	\$0.7mm
Injection Facility	\$830m	1	\$0.8mm
Supply Water	\$500m	1	\$0.5mm
Total		14	\$7.0mm

mmary
Su
<b>Project Reserves</b>
Total
and
Injector







		Inj EUR at	
mmary	R	MS	60
Injector Reserves Summary	Offset Producer Oil EUR	SE	146
or Rese	ffset Prod	NE	60
Injecto	0	NW	60

Inj EUR at 1.6:1

1:1 

 <sup>82</sup>

Arnott Ramsay NCT-B 11 CTI

SU 25S-37E 32GG

SU 25S-37E 32JJ

SU 25S-37E 32CC SU 25S-37E 32FF

Well

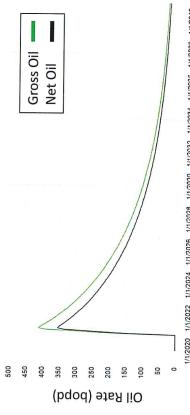
Summary	
<b>Reserves</b> 5	
<b>Project</b>	
Total	

	Oil Volume	Comments
00IP	8.6 mmbo	
Existing Primary Oil EUR	0.8 mmbo	All oil produced in the
		section by producers in
		project area
Primary RF	9.4%	
New Drill Producers Primary Oil EUR	0.3 mmbo	4 new drills, 1 deepening
Remaining Secondary Oil at 1:1 S/P	0.5 mmbo	Remaining at S/P of 1
Remaining Secondary Oil at 1.6:1 S/P	0.7 mmbo	Remaining at S/P of 1.6
		16

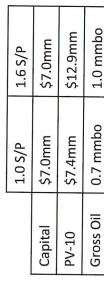


# Arnott Ramsay Waterflood Production & Economics

1.6 S/P Case Oil Production







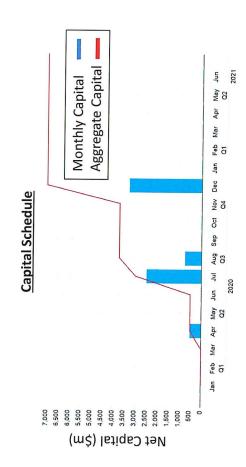
**Economics Summary**\*

\*Economics at \$50/bo flat & \$2/mmbtu flat

0.9 mmbo

0.6 mmbo

Net Oil



- High certainty: good log control, long history of production data •
- This project will be similar to West Eumont Unit's Pilot 1 in oil rate profile / processing efficiency
- The 1.0 S/P downside sensitivity is not really in play

#### AGREEMENT

This agreement is made between the New Mexico State Land Office ("NMSLO") and FAE II Operating, LLC ("FAE").

WHEREAS, FAE has applied in New Mexico Oil Conservation Division ("OCD") Case No. 21118 for approval to implement the Arnott Ramsey Waterflood Project, which will be located on State lands and will include 640 acres, more or less, comprised of Section 32, Township 25 South, Range 37 East in Lea County ("Project Area");

WHEREAS, the NMSLO is the mineral interest owner in the Project Area and FAE is the mineral interest lessee under State of New Mexico Lease BO-0229-00001;

WHEREAS, FAE's Application in Case No. 21118 requests authorization to obtain administrative approval of additional injection wells within the Project Area and expand the Project without the necessity of additional hearings;

NMSLO and FAE agree as follows:

1. FAE requests authorization to obtain administrative approval of additional injection wells within the Project Area and is not seeking authorization to obtain administrative approval of expansions of the Project Area; and

2. Based on the agreement set out above in Paragraph 1, the NMSLO does not object to FAE's Application or FAE's request to obtain administrative approval of additional injection wells within the Project Area.

New Mexico State Land Office

Date:

FAE II Operating, LLC

Date

Case No. 21118 FAE II OPERATING Exhibit <sup>#</sup>3

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

I.

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

FORM C-108 Revised June 10, 2003

#### APPLICATION FOR AUTHORIZATION TO INJECT X Secondary Recovery Pressure Maintenance Application qualifies for administrative approval? Yes X No PURPOSE: Disposal Storage II. OPERATOR: FAE II Operating, LLC ADDRESS: \_\_\_\_11757 Katy Freeway, Suite 1000, Houston, TX 77079 CONTACT PARTY: Jessica LaMarro \_\_\_\_\_PHONE: (832) 706-0049 III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary. IV. Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project: V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. VII. Attach data on the proposed operation, including:

- - 1. Proposed average and maximum daily rate and volume of fluids to be injected:
  - 2. Whether the system is open or closed:
  - 3. Proposed average and maximum injection pressure:
  - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  - 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone 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. Describe the proposed stimulation program, if any.
- Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). \*X.
- Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any \*XI. injection or disposal well showing location of wells and dates samples were taken.
- Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and XII. find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

JC	ssica Laviarro	HILE:	Geologist	
SIGNATURE:	-A Zula	5		DATE: 01/30/2020

E-MAIL ADDRESS: Jessica@faenergyus.com

MAME.

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

FAE II OPERATING Exhibit #4

Case No. 21118

III. Well Data INJECTION WELL DATA SHEET OPERATOR: FAE II Operating, LLC WELL NAME & NUMBER: ARNOTT RAMSAY NCT-B #11 WELL LOCATION: 1650 FSL & 990 FWL L 32 25S 37E FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE CURRENT WELLBORE SCHEMATIC WELL CONSTRUCTION DATA Surface Casing Surface Csg 8-5/8" Size: Hole Size: 12-1/2" Wt.&Thrd: 24#, STC Casing Size: Grado: K-55 8-5/8" Sot @: 399' Depth Set: 399' Sxs cmt: 275 Top of Cement: Circ: surface Cement with TOC: Surface 275 sx Hole Size: 12-1/4" Method Determined: circulated Production Casing Hole Size: 7-7/8" Casing Size: 5-1/2" Depth Set: 3,473' Top of Cement: surface Cement with 1710 sx Method Determined: circulated Proposed Injection Interval Seven Rivers Inj. Zone ~3,100' to 3,300' Zone will be Perforated Tubing Tubing Size: 2-3/8" Lining Material: Nickel Type of Packer: AS1-X Packer Depth Set: ~3,120' CIBP @ 2,675' w/ 20' cmt on top Additional Data 1. Originally an oil producer. Perfs: 2. Injection Formation: Seven Rivers 2743'-3250' 3. Field: Langlie-Mattix Production Csg 4. Well has NOT been perforated before. Size: 5-1/2" Wt.&Thrd: 14#, STC 5. Underlying Oil Zone: Queen Formation Grade: K-55 Sqeezed perfs @ 3270'-3281, Depth of Underlying Zone: +3,400' Set @: 3473 Sxs Cmt: 1710 Circ: TOC: Plugged Perfs @ 3354'-3362', 3356'-3360' Halo Sizo: 7-7/8" 2 **PBTD 3334** 

TD 3473'

III. Well Data **INJECTION WELL DATA SHEET** OPERATOR: FAE II Operating, LLC WELL NAME & NUMBER: ARNOTT RAMSAY NCT-B #11 WELL LOCATION: 1650 FSL & 990 FWL L 32 25S 37E FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE PROPOSED WELLBORE SCHEMATIC WELL CONSTRUCTION DATA Surface Casing Hole Size: 12-1/2" Casing Size: 8-5/8" 2-3/8" IPC tubing set at ~3,120' Depth Set: 399' Top of Cement: surface Cement with 275 sx Method Determined: circulated Surface Production Casing Casing Hole Size: 7-7/8" Casing Size: 5-1/2" Depth Set: 3,473' Top of Cement: surface Cement with 1710 sx Method Determined: circulated Proposed Injection Interval Seven Rivers Inj. Zone ~3,170' to 3,290' Production Zone will be Perforated Casing Tubing **Tubing Size:** 2-3/8" Lining Material: Nickel Type of Packer: AS1-X Packer Depth Set: ~3,120' Will cement squeeze **Additional Data** perfs from 1. Originally an oil producer. 2743'-3050' 2. Injection Formation: Seven Rivers Will perforate 3. Field: Langlie-Mattix Will set Seven Rivers 4. Well has NOT been perforated before. injection in specific 5. Underlying Oil Zone: Queen Formation packer @ intervals from ~3,120' • Depth of Underlying Zone: +3,400' ~3,170'-3,290'

TD: ~3,473

Well Name:	ARNOTT RAMSAY NCT-B #11
Objective:	Convert to Injector
Field:	Langlie-Mattix
Surface Location:	1650' FSL & 990' FWL
	Sec 32, Township 25 S, Range 37 E
County, State:	Lea, NM
API:	30-025-26963

Engineer:

Garret Johnson 918-697-8311 or 832-706-0056

garret@faenergyus.com

#### Well Information:

Casing:

200	Hole Size	Cement	Amount Pulled
399	12.5	275 sx-circ	
3473	7.875		
		12.5	275 \$2-6110

Perforations:

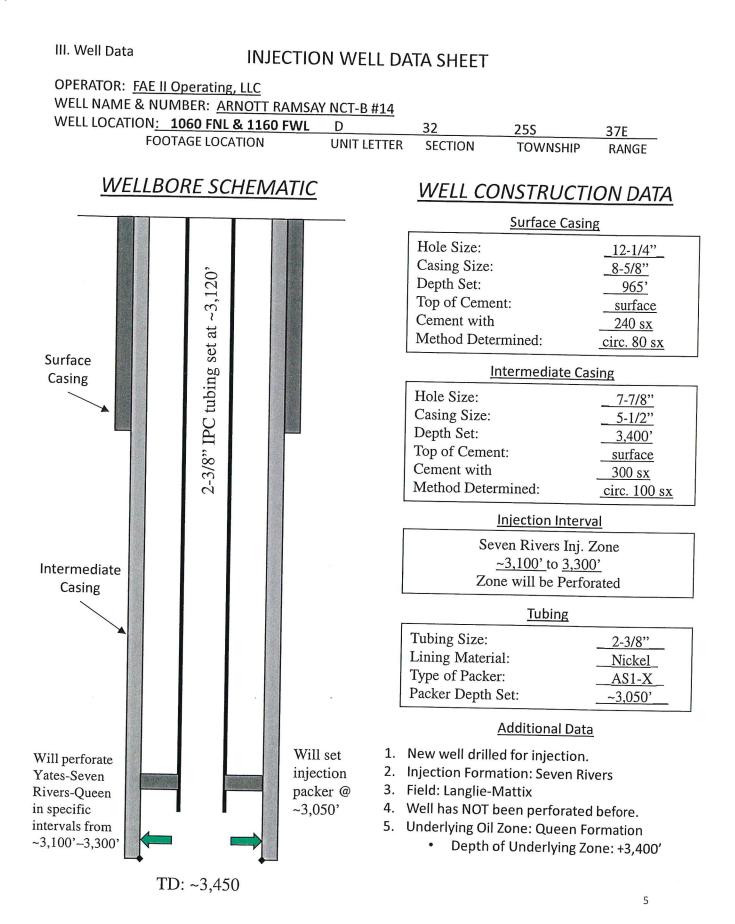
tatus	Status	Diameter	SPF	Bottom	Тор
State of the local division of the local div	Open under (		1	3050	2743
	Squeezed	0.5″	2	3273	3270
		0.5"	2	3281	3278
	Squeezed		2	3362	3354
	Plugged		2	3360	3356
	Plu Plu	0.5″ 0.5″	2 2		

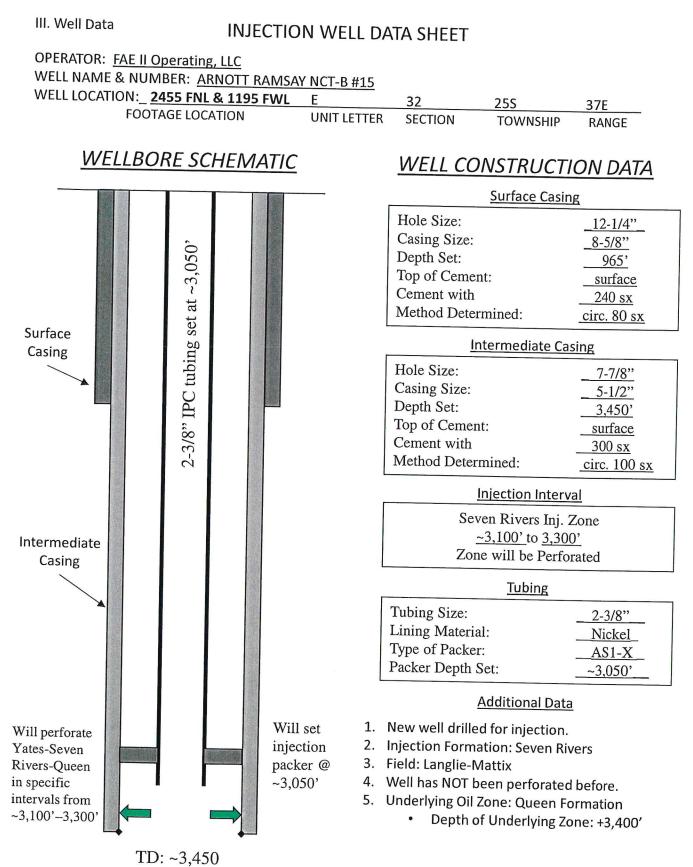
Completion: 3270-3281' – 1200 gallons 15% slick NEFE HCl, 8 7/8" RCNB's, 10,500 gal 70 qual foam, 12,000# 20/40 sand.

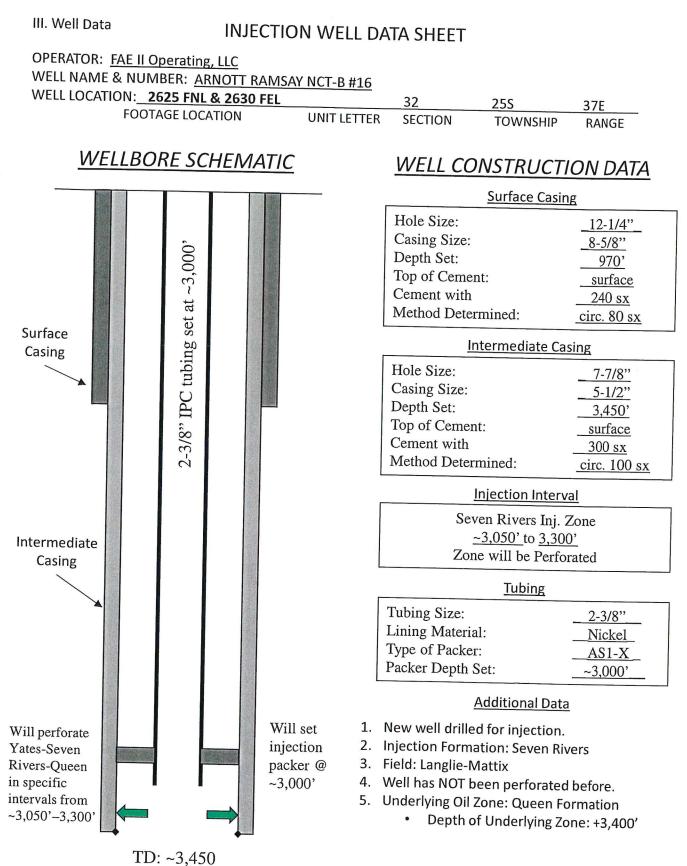
Notes: 07-05-13: set CIBP at 2675'. Dump 40' cement on top of plug. Load and test to 600 psi for 30 minutes, test held.

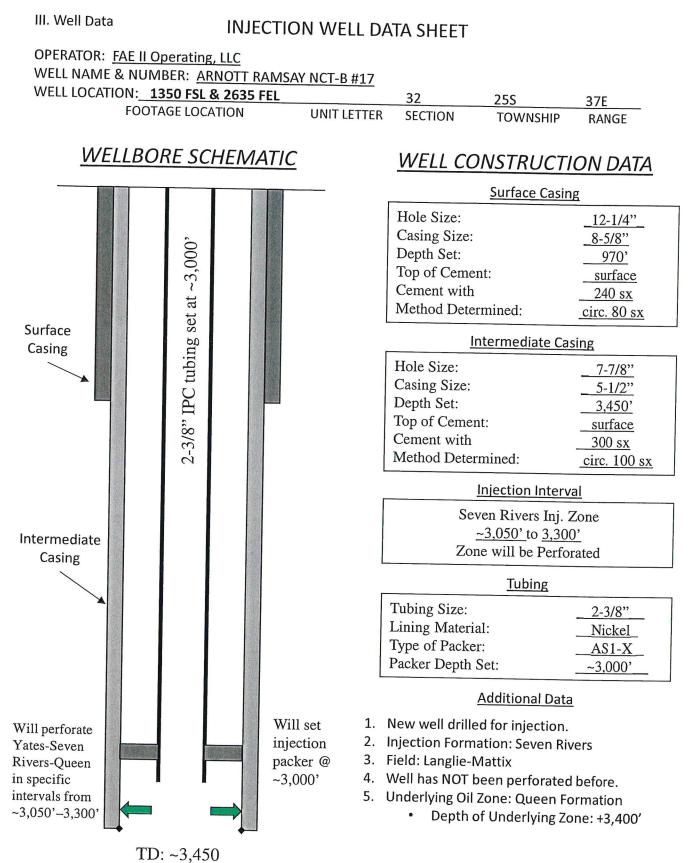
#### Planned Procedure:

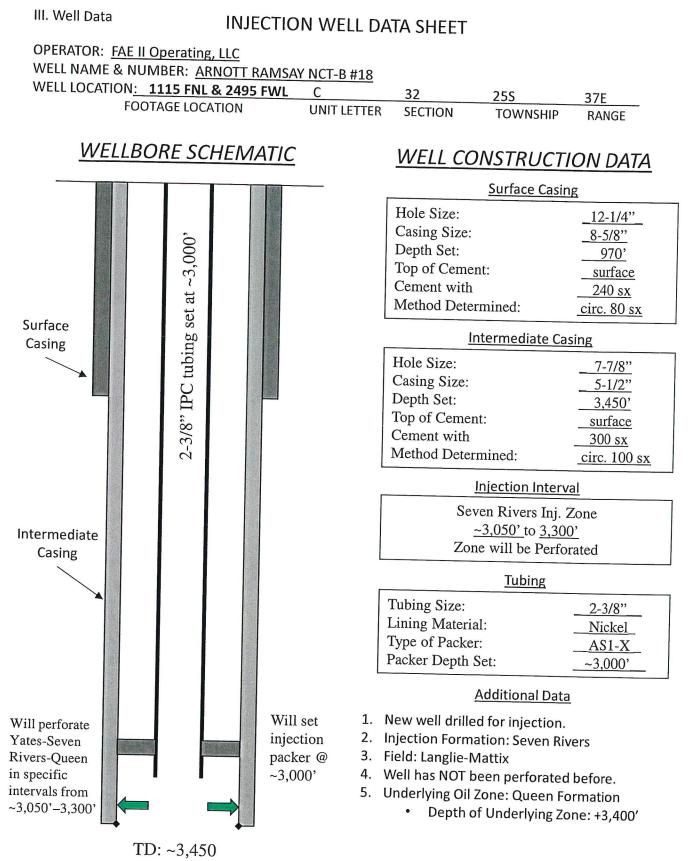
- 1. Inspect lease roads to location to assure adequate access for work activities. Function test the wellhead valves to assure proper operation during the procedure. Locate and inspect rig anchors, test or replace anchors if necessary.
- Nipple down wellhead and close wellhead valves. Break down flow lines from the wellhead and isolate lines. Blind flange to protect the lines to prevent fluids from escaping or leaking.
- 3. Rig up reverse package, swivel. RIH with 4-3/4" bit, 4 drill collars, and 2-3/8" L-80 workstring.
- 4. Keep tally of tubing and slowly come down on top of plug at ~2635'.
- 5. Load hole with 2% KCl water, begin to circulate, drill out 40' cement plug.
- Continue drilling through CIBP when metal cuttings appear on surface, back off of plug and circulate bottoms clean 2x. After circulation, continue to drill out plug.
   Once through plug, continue to tally into hole until TD is evaluable.
- 7. Once through plug, continue to tally into hole until TD is reached. Report PBTD to Garret.
- 8. If TD is less than 3,390', drillout will continue.
- 9. Come out of hole laying down.
- 10. Cement squeeze interval 2743-3050.
- 11. Rig up wireline, and set CIBP at 3340'. Perforate 4 SPF interval 3170'-3290'. Use gas gun to stimulate also see attached. Rig down wireline.
- 12. Pick up 2-3/8" ICP tubing. RIH w/ AS1X nickel coated packer and set @ 3120'. Note pressure on the backside monitor while pumping down tubing.
- Rig up acid equipment. Pump 5,000 gallons 15% HCl, flush w/ 25 bbls produced water.
   Swab water back into frac tank. Note top of fluid, bbl among the lange of the second sec
- 14. Swab water back into frac tank. Note top of fluid, bbl amount, and signs of gas on each run.
- 15. Rig down and move out service rig and equipment. Connect injection lines to wellhead. Clean up location as necessary.







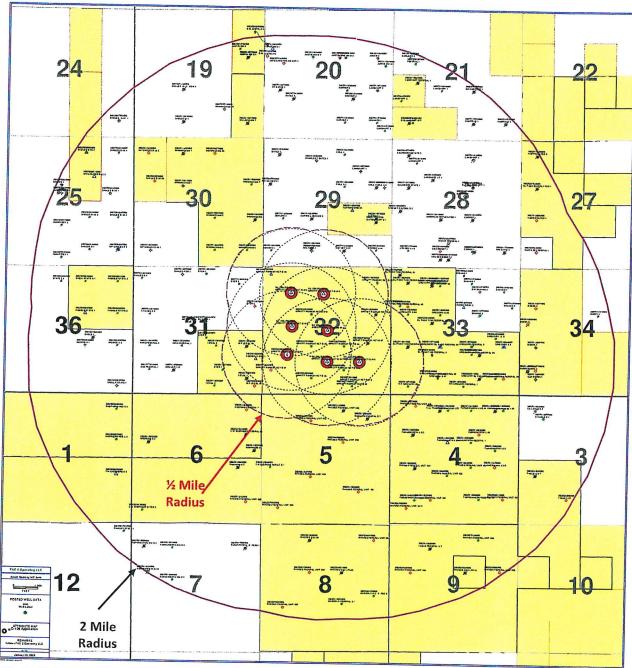




III. Well Data INJECTION WELL DATA SHEET **OPERATOR:** FAE II Operating, LLC WELL NAME & NUMBER: ARNOTT RAMSAY NCT-B #19 WELL LOCATION: 1340 FSL & 1330 FEL 32 25S 37E FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE WELLBORE SCHEMATIC WELL CONSTRUCTION DATA Surface Casing Hole Size: 12-1/4" Casing Size: \_8-5/8" 2-3/8" IPC tubing set at  $\sim$ 3,000 Depth Set: 980' Top of Cement: surface Cement with 240 sx Method Determined: circ. 80 sx Surface Intermediate Casing Casing Hole Size: 7-7/8" Casing Size: 5-1/2" Depth Set: 3,450' Top of Cement: surface Cement with 30<u>0 sx</u> Method Determined: circ. 100 sx Injection Interval Seven Rivers Inj. Zone ~3,050' to 3,300' Intermediate Zone will be Perforated Casing Tubing **Tubing Size:** 2-3/8" Lining Material: Nickel Type of Packer: AS1-X Packer Depth Set: ~3,000' Additional Data 1. New well drilled for injection. Will set Will perforate 2. Injection Formation: Seven Rivers injection Yates-Seven 3. Field: Langlie-Mattix **Rivers-Queen** packer @ 4. Well has NOT been perforated before. in specific ~3,050' 5. Underlying Oil Zone: Queen Formation intervals from ~3,050'-3,300' Depth of Underlying Zone: +3,400' • TD: ~3,450

V.

Exhibit A shows 35 unique well locations within a ½ mile radius of the proposed new drill injector locations, and 247 unique well locations within a 2 mile radius, and all associated leases.



**Exhibit A** 

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in Exhibit B1-B7. The plugged well wellbore diagrams are displayed in Exhibit C1-C14. drilled, location, depth, and completion date of wells within a % mile radius are displayed Following Exhibit A, the tabulation of the wells with each well's type, construction, date

### **Exhibit B1**

	00005590657006		30025262780000	SU 255-37E 32CC	MMCCRTTCZMC		SIL DECITE THE	30025118560000	30025282890000	0007060727006		30075118570000	3U 23-3/E 32U	0000020202020	mmuscaccuue	30025433600000	COUNTE INTERIOR	TUDESTER	SU 255-37E 32FF	3002311854000		30025269630000	14/1480	
	FAE II Operating LLC	i Ac II obeiguilg tre	EAE II Operating II C	FAE II Operating LLC	FULFER OIL & CATTLE COMPANY LLC	LACH Oberating the		BURUNGTON RESOURCES D&G CO IP	FAE II Operating LLC	FAE II Operating LLC	CIMIANEN EINENGT CU UF CULURADU	CIMADEY ENERGY CO OF COLORADO	FAE II Operating LLC	FAC II Operating LLC		OWL SWD OPERATING LLC	FAE II Operating LLC		FAF II One rating I IC	FAE II Operating LLC	and another and	FAE II Onerating II C	OPERATOR	
- 11	ARNOTT RAMSAY NCT-B #13	ARNUTT RAMSAY NCT-8 #6		ARNOTT RAMSAY NCT-R #14	DYER 3	ARNOTT RAMSAY NCT-B #16	LEAVE T	IECAI 1		ARNOTT RAMSAY NCT-B #10	MF LEGAL #2		ARNOTT RAMSAY NCT-B #17	ARNOTT RAMSAY NCT-B #8		KIMBERLY SWD 1	ARNOTT RAMSAY NCT-B #9	ANNUT I RAMSAT NCI-B #15	ADVICTT DALACAY SICT DALA	ARNOTT RAMSAY NCT-B #1	MNINOTI KAMISAT NCI-8 #11 3473 LOC-INJ / TA	ADNOTT DAMEAU NOT 5 HAA	WELL LABEL	
	3159	3600			2977		3/24	1000	USEE	3400	3350		-	3630			3450		0100	3400	3473 L		티	
	2	OIL	CUL DOT	Incini	GAS	LOC-INJ	PLUGGAS	-	GAC	01	PLUGGAS	Control of	Inc.INI	9L	OAAC	SWD	OIL	LOC-INJ	500	GAS	OC-INJ / TA		WELL TYPE	
ŀ		LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG	Location-Injection	1	WAS	Location-Injection	Plugged	JALIVAI, JAN-TAIES-/ HVHS	IALMAT TAN VATE TOUR	IAI MAT. TANI VATES 7 DUDS	Plugged	rocation-injection		JALMAT: TAN-YATES-7 RVRS	SYVU; UEVUNIAN-SILUKIAN	SWD: DEVONIAN SILIPLAN	LANGLIE MATTIX: 7 RVRS-O-GRAVRI IBG	Location-Injection	JALIVAI; JAN-TAILS-/ KVKS	INIMAT. TAN VATES TOUSS	JALMAT: TAN-YATES-7 RVRS		CURRENT ZONE	
0007	+	2500	2335	6	2700	1987	1977	1850	0HM		1797	1784	1001	1307	1377	COT		1083	926		•		Distance	
GRGT /q/G	CICT IN IL	4/6/1070		+CCT 107 10	chelines		12/11/1950	7/29/1983	0861/5/6	Terr lor lo	8/18/1051		CICT INT IL	0/06/1070		127 177 In	11111000		4/28/1935	TOCT   17   14	1/21/1021		SPUD DATE	
9/22/1989	CIET IO IO	6/0/1070		1/11/1924	TINIANTA		8/10/1951	8/10/1983	10/10/1980	TCCT Inc Ic	0/20/1051		ELET ICT II	7/10/1070		086T /87 /c	Thatana		8/8/1935	70CT 107 1T	11/21/1081 1/20/1082		Distance SPUD DATE COMP DATE TOWN	
255	202	750	255	252	6		755	255	255	607	1	255	201		755	255		320	255	CC7			FIDWNSH	
37E	3/E			37E	3/5	1	775	37E	37E	3/2	-	375	J/E	3/6	370	37E	3/6	1	37E	3/5	1	10110	ID RANG	
32	32	-	5	31	32	J.	2	31	32	31	2	2	32	TC		32	×	:	SE	32		INTIAC SECTION		
1980 FEL 990 FSL	1980 FEL 1980 FSL	TOOD FILE & TTOO LAFT	TOGO ENI 8. TECO ENVI	330 FEL 1650 FNL	2625 FNL & 2630 FEL	DON LET PON LOT		330 FFI 330 FCI	1980 FWL 1980 FNL	660 FEL 1980 FSL	1330 FOL & 2035 FEL	1350 551 8 3635 551	1980 FWL 660 FSL	28/ HEL 1450 FSL		1980 FWL 1980 FSL	2455 FNL & 1195 FWL		130 LIVE UDD LIVE	990 FWL 1650 FSL		TUUIAUE		
32.082100	32.084820	ObsOC075		32.089360	32.086664	32.081190	1000000	VOCUOU CE	32.088470	32.084820	32,083084		32.081190	32.083360		32.084820	32.087118	060700.70	and a co	32,083910	140 MAG	SIBEIAT	NAD27-	
-103.182100	-103.182120	-103.189133		-103.193900	-103.184285	-103.194920	ACOCCT COT.	100 100000	-103.186440	-103.194940	-103.184291	+	-103.186390	-103.193730		-103.186420	-103.188987	-103.121/30		-103.18961	JUNFLUM	CIDEION	NAD27-	
	32.084944	32.091064	$^{\dagger}$	DRIVDRU CE	32.086788	) 32.081314	22.000404	1		32.084944	32.083208	t	D 32 D81314	32.083484	t		7 32.087242	0 32.082214		10 32.08403	SURFLAT	-	WGS84-	
	4 -103.182598	4 -103.189611	TUD, LOYOTO		8 -103.184763	4 -103.195398	4 - JUS, 194328	Т		4 -103.195418	8 -103.184769	CODODT - COT		-103.194208	-102.100000	Τ	-103.189465	-103.192208		32.083910 -103.189610 32.084034 -103 190088	SURFLON	1.0001	WIGSRA-	

1

	000000000000000000000000000000000000000	30036118450000	30025269630000	30025118540000	000757075700C	DOTE TICKED	SII 955 375 3966	30025118340000	MONT CRITIC 700C	20015440140000	20025118230000	30025118550000	00 2/C-2/C	CII DEC DTE DIAN	SU 255-37E 32FF	0007060757005		30025261060000	30_233-37E_32LL		UWI/API	
	BURLINGION RESOURCES O&G CO LP	I ACTI Operating LLC	EAE II Onorating II C	FULFER OIL & CATTLE COMPANY LLC	FAE II Operating LLC	FAE II Uperating LLC		BURLESON LEWIS B INCORPORATED	IEXAS PACIFIC OIL COMPANY	AIVIERADA ULJEN & PEERLES	AMEDADA DICENI & DEFRICE	FULFER OIL & CATTLE COMPANY LLC	FAE II Operating LLC		FAE II Operating LLC	FAE II Operating LLC	The second se	FAF II Operating 11 C	FAE II Operating LLC		OPERATOR	
	WINNINGHAM 6	ARNOTT RAMSAY NCT-8 #11	I	DYER 2	ARNOTT RAMSAY NCT-B #9	ARNOTT RAMSAY NCT-B #16	CONTINUE		JENKINS 1	IMA HAYS 1	C INT C	DYFR 3	ARNOTT RAMSAY NCT-B #18	THALLOU MOUTH INCIDE		ARNOTT RAMSAY NCT-B #10			<b>ARNOTT RAMSAY NCT-B #14</b>		WELL LABEL	
I	3191	3473 LOC-INJ/TA		3171	3450		CHAC	1	3174	8576	1107	7077				3400	3600	t		H	6	
	PLUGOIL	C-INJ/TA	010	01	OIL	LOC-INJ	PLUGGAS		PLUGOIL	DRY	CHD	CAC	LOC-INJ	LOC-INJ		OIL	SWD		LOC-INJ		WELL TYPE	
r inggen	Plumod	JALMAT; TAN-YATES-7 RVRS	JOUNDI, IMIN-TATES-/ NVHS	AI MAT. TAN. VATES TOURS	RAYRURG	Location-Injection	Plugged	1 inggen	Pluggod	Plugged	JALMAI; JAN-YATES-7 RVRS		Incation-Injection	Location-Injection		JALMAT: TAN-YATES-7 BURS	SWD; SEVEN RIVERS-QUEEN	Foration-Injection	Incation_Injection	SOUNTIN TONE		
9007	+	2335	2303	+	2710	CALC	1893	979T	_	_	1664	0661	100	1268	TTT		1115	•	•	Distance	2	
4/6/1951	all lanca	11/21/1081	12/13/1952	NOCT 177 14	1/22/1000		11/20/1951	14/5/1950	an in lanno	11/20/1056	6/26/1954				ORGT /C/C	ol Flann	12/27/1978			SPUD DATE		
4/28/1951	7007 107 17	1/20/1002	1/3/1953	006T /07 /c	C/DB/1000		5/12/1952	12/10/1951		1/21/100-	7/11/1954				0861 /nt /nt		7/7/1070			USTANCE SPUD DATE COMP DATE TOWNSHIP RANGE SECTION		
255	t	i i	255	567	+	†	250	1 25S	t	+	255	255	22	100	0 255	t	-	255		TE TOWNS		
375	3/6	;	37F	3/E	3/15	310	375	37E	3/6		376	37E	3/6	-	37E	3/5	1	37E	ł	HIP RANG	-	
3	32		יי	32	32	G	3	62	29	1	1	32	32	;	32	32	+	32	t	E SECTION		
GEN EEL EEN ECL	990 FWL 1650 FSL	JOUTLE / JOITNE	020 EEI 73E ENI	1980 FWL 1980 FSL	2625 FNL & 2630 FEL	1980 FWL /60 FSL		330 FWL 660 FSI	1980 FWL 660 FSL	JOULET TOOD FUL	200 FFI 4550 FM	1115 FNL & 2495 FWL	2455 FNL & 1195 FWL		1980 FWL 1980 FNL	330 FWL 330 FNL		1060 ENI & 1160 EWI		FOOTAGE		
117200 CE	32.083910	DRRTED'7C		32.084820	32.086664	32.096000	CTICTOR C	ם חפבשט	32.095730	32.089360		32.090808	32.087118		32.088470	32.092990	100004	ST DODOA	SURFLAT	NAU2/-		
	-103.189610	-103.196020	-+	-103.186420	-103.184285	-103.186480	DTOTCT.CNT.	-	-103.186480	-103,193900	+	-103 1842n2	-103.188987	╋	-103 186440	-103.191800	CT60T'COT- 0		SURFLON	NAD27-		
	32.084034	32.092004		32.084944	32.086788	32.096124	32.033844		32.095854	32.089484	7000070	remon ce	32.087242	32.000394	בא המפנהא	32.093114	32.091064		SURFLAT	WGS84-		
	-103,19008	-103.196498	T	-103.186898	-103.184763	-103.186958	-1U3.192288	Т	-103.186958	-103.194378	-103.001.01-		-103, 189465	+ - TU3. 180918		-103.192278	-103.189611		SURFLON	WGS84-		

	30025262780000	COCOLOTICATOR	20025261050000	30025262800000	DDDD/SRTC2DDE		11CE 37E 371	30025433600000	30025118640000	SU 255-37E 3288		300251185500m	SU 255-37E 32GG	The second second	SII 755-375 30CC	30025267570000		20025269630000	30025269620000		SU 25S-37E 32FF	UWIJAPI	
	FAE II Operating LLC	LAC II Oberating LLC		FAE II Operating LLC	CIMAREX ENERGY CO OF COLORADO	FAE II Operating LLC		OWI SWD OPFRATING ITC	FAE II Operating LLC	FAE II Operating LLC	FOR EN UIL & CALLEE COMPANY LLC		FAE II Operating LLC	THE II Operating LLC	PAPHO INC	FAE II Operating LLC	LAC II Oberating TTC	EAEII On the II O	FAE II Operating LLC	The operating the	FAF II Operating IIC	OPERATOR	
		ARNOTT RAMSAY NCT-B #4		ARNOTT BAMSAY NOT B HE	M F LEGAL #2	ARNOTT RAMSAY NCT-B #17	T DAAC TURIDENEL SAAD T			ARNOTT RAMSAY NCT-B #18	DYER 3		ARNOTT RAMSAY NCT-B #16	ARNOTT RAMSAY NCT-B #14		ARNOTT RAMSAY NCT-B #9	ARNOTT RAMSAY NCT-B #11	THE PARTY OF THE PARTY	ARNOTT BAMCAY NOT - B #10	ARNUTT HAMSAY NCI-8 #15	ADAIOUT DALAGAN HIM	WELL LABEL	
0000	3600	3600	000	200	3350				3400		2977				0000	USPE	3473	1400				티	
		SWD	OIL		PLUGGAS	LOC-INJ	SWD		GAS	LOC-INJ	GAS	LUC-INI	Inc. MI	LOC-INJ	OIL.	DI	3473 LOC-INJ / TA	OIL	2	LOC-INJ		WELL TYPE	
2400 ZANDELE INIATI IA, / AVAD-Q-UNATBURG	ANGLE MATTIX- JEVES O CRAVELIN	SWD: SEVEN RIVERS-DUIEEN	JALMAI; TAN-YATES-7 RVRS	- 146650	Plumod	Location-Injection	SWD; DEVONIAN-SILURIAN	JOURNI, INVIAIO-/ NVIO	IAI MAT: TAN VATES 7 BURG	Incation-Injustion	JALMAT: TAN-YATES-7 RVRS	Location-Injection		Location-Injection	LAINGLIC IMATTIA; / KVKS-Q-GRAYBURG	IANGI IE MATTIV. 7 DUDE O CONTINUE	JALMAT: TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS		Location-Injection		CURRENT ZONE	
2400	0017	7150	2145	CTT7		2052	2005	RERT	1849	1100	1700	1565	4400	1760	1142	1000	1093	956	•	0		Distance	
4/6/1979	8/61/17/71	17/17/1070	4/26/1979	156T/RT/R	n lan lanna			4/28/1935		HCCT 107 10	6/36/1054			-	4/22/1980	TOCT / T7 / TT	11/31/1001	9/5/1980				SPUD DATE	
6/8/1979	6/61/17	or of the test	7/19/1979	9/30/1951				8/8/1935		1/1/1/294	7/11/1054			oner las la	5/28/1980	7861 /07 /1	4 10014000	10/10/1980				Distance SPUD DATE COMP DATE TOWNSI	
755	255		255	255	00	100	255	25S	255	255	100	255	252	Cr13	250	255		755	200		100000	TOWNSHIP	
376	37E		376	37E	3/6		77	37E	37E	37E		375	37E	215	376	376	-	375	37E		THE PLANE SECTION	RANGE	
:	32	75	5	31	32	U.	2	32	32	31	36	5	32	70	5	32	75		32		SCCI ON	FLIDN	
	330 FWL 330 FNL	1300 FWL DOU FSL	1000 Filli CCO FCI	660 FEL 1980 FSL	1350 FSL & 2635 FEL	20/ FEL 1450 FSL		330 FWI 990 FSI	1115 FNL & 2495 FWL	330 FEL 1650 FNL	2023 FNL & 2030 FEL		1060 FNL & 1160 FWL	TARGET AND FRE	1000 5411 4000 551	990 FWL 1650 FSL	TAOLLAN LAGO LAN	1000 Field 1000 Fell	2455 FNL & 1195 FWL 32.087118 -103 188987 32 087242 -103 186465		FUUIAGE	EDOTACE	
	32.092990	06118075		32.084820	32.083084	32.083360	00000000	UDUCEU CE	32.090808	32.089360	32.086664		32.090940	32.084820		32,083910	32.088470		32.087115	DOULDAT	CI IDEI AT	NAD27-	
+	-103.191800	-103.186390	ALTERNA	-101 194940	-103,184291	-103.193730	DCITCT.COT.	102 101700	_	-103.193900	-103.184285	+	-103 189133	-103.186420	-	-103,189610	-103.186440		1-103 188987	NOTING		NAD27-	
	32.093114	32.081314	HACHON'7C	AVOVOU CE	32.083208	32.083484	hT7200'7C		32.090932	32.089484	32.086788	TONT COLTC	12 001064	32.084944		VEUTBU CE	32.088594	021001242	CVCCBU CE	SURFLAT		WGS84	
and and the state	-103 192278	-103.186868	- TO3' TAATR	103 105440	-103.184769	-103.194208	-103.192208		-103 185281	-103.194378	-103.184763	TTOCOT COT.	102 100011	-103.186898	CONCT CAY	-103 100000	-103.186918	C04601'601	102 100466	SURFLON	11001	WGS84-	

	30025261050000	30025275510000	3002511862000	SU 255-37E 32CC	30025269630000	30025262800000	SU 255-37E 3211	30025262790000	30025306550000	SU 255-37E 32FF	SU 255-37E 3288	SU 255-37E 32J	0008/797c700C		00001212121212000	30025269620000	SU 255-37E 3266	I MAII/ADI
	HARTMAN DOVIE	FAF II Operating IIC		FAF II Operating IIC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	HARTMAN DOYLE	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	rAc il Operating LLC	EVELID PETALING LLC	EAF II Onersting IIC	00000400
MNINO I I NAIMDAT MCI-B #3						1				ARNOTT RAMSAY NCT-B #15	ARNOTT RAMSAY NCT-B #18		ARNOTT RAMSAY NCT-B #6	ARNOTT RAMSAY NCT-B #9		ARNUTT RAMSAY NCT-8 #16	WELL LABEL	
3500 PL	T			34/3 LUC-		1			97159	5	5			3450	3400	6	TD WE	
PLUGOIL	OIL	PLUGGAS	LOC-INJ	LUC-INJ/TA	OIL		IOC-INI	IIGOII	Di	LOC-INJ	LOC-INI			OIL	OIL	OC-INJ	WELL TYPE	
Plugged	JALMAT; TAN-YATES-7 RVRS	Plugged	Location-Injection	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	rocation-injection	Flugged	DI D	INTAANT. TANI VATES TOUSS	Instinuting cupil	Incation Injustice	Inration-Injection	LANGLIE MATTIX: 7 RVBS-0-GBAVBI IBC	LANGUE MATTIX; 7 RVRS-Q-GRAYBURG	JALMAT; TAN-YATES-7 RVRS	Location-Injection	CURRENT ZONE	
2373	2328	2205	2142	1987	1944	1840	1836	16//	COCT	1964	DOTT	245	040	556	2E6	0	Distance	
12/20/1978	1/13/1982	8/22/1955		11/21/1981	4/26/1979		4/14/1979	6/6/1989				CIET IO In	Alcinno	4/22/1980	9/5/1980		SPUD DATE	
1/19/1979	3/18/1982	10/9/1955		1/20/1982	7/19/1979		7/11/1979	9/22/1989				6/61/8/0	noct lot lc	5/30/1000	10/10/1020		Distance SPUD DATE COMP DATE TOWNS	
25S	255	255	255	252	255	255	255	255	255	255	255	252	()	T	1	255	E TOWNSH	
37E	37E	37E	<b>7</b>	375	37E	37E	37E	37E	37E	37E	37E	37E	3/6	3/12		37F	HIP RANGE SECTION	
32	2	3	3	3	32	32	32	32	32	32	32	32	32	32	1	4	SECTION	
1650 FEL 330 FSL	1480 FEL 500 FSL	AGO EFI 1980 ENI	1000 ENIL 0 1100 F3L	990 EWI 1650 ESI	1980 FWL 660 FSL	1340 FSL & 1330 FEL	990 FEL 2130 FSL	1980 FEL 990 FSL	2455 FNL & 1195 FWL	1115 FNL & 2495 FWL	1350 FSL & 2635 FEL	1980 FEL 1980 FSL	1980 FWL 1980 FSL	1980 FWL 1980 FNL	2	7675 ENI & 7690 FFI	FOOTAGE	
32,080290	37.080760	32,090940	OTECON7C	33 000010	32.081190	32.083079	32,085240	32.082100	32.087118	32.090808	32.083084	32,084820	32.084820	32.088470	32.08666	- ANDE	NAD27-	
-103.181020	+	+	+	+	+	-	-	-	-	_	-103,184291	-103.182120	-103.186420	-103.186440	32.086664 -103.184285	JONFLON	NAD27-	
32.080414	32.088624	32.091064	32.084034	+	+	+	1	+			32.083208			32.088594	5 32.086788 -103.184763	SURFLA	WGS84-	
4 -103.18140938		T	4 -103,190088	T	T.	Τ		Τ						-103.186918	8 -103.18	SURFLON	-	

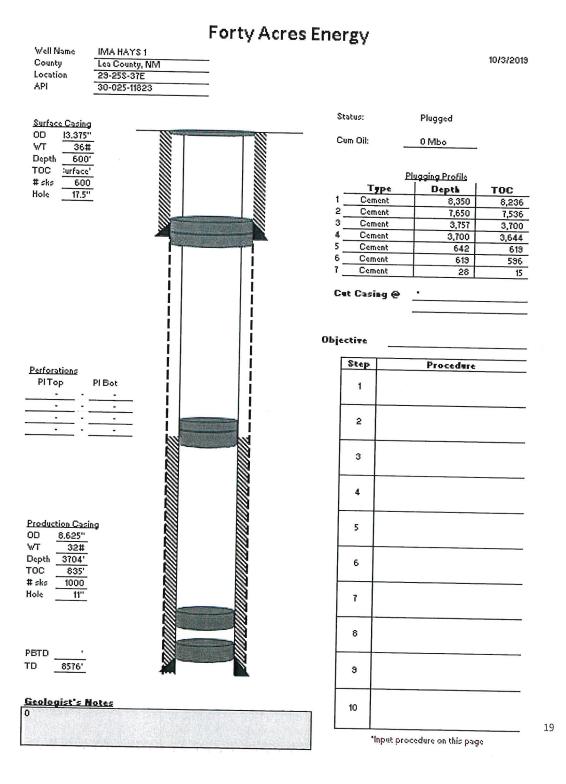
	SU_2SS-37E_3288	30025118640000	MMCCCT CT 700C	30025313380000	SU 255-37E 32FF	30025281140000	30025269620000	00006170202000	MMMCDCD4C17C100C	2007526252000	30025275510000	30025261050000	30 235-37E 3211		SU SECTOF ADER	30025262800000	00000/202000		30025267570000	30025306550000	20 23-37 52J	SII DES 275 2011	UWI/API	
	FAE II Operating LLC	FAE II Operating LLC	rae II Operating LLC	Contraction of the second	FAF II Operating II C	CIMAREX ENERGY CO OF COLORADO	FAE II Operating LLC	HARTMAN DOYLE	FAE II Operating LLC	the state of the s	FAE II Operating II C	HARTMAN DOYLE	FAE II Operating LLC	LAC II Oberaring MC	EAFILO	FAE II Operating LLC	FAE II Operating LLC	The person of the	FAF II Operating II C	FAE II Operating LLC	FAE II Operating LLC		OPERATOR	
		ARNOTT RAMSAY NCT-B #1	RHODES FEDERAL UNIT #53	ANNUTI RAMOAT NUI-B #15			ARNOTT RAMSAY NCT-B #10	ARNOTT RAMSAY NCT-B #7	ARNOTT RAMSAY NCT-B #11				ARNOTT RAMSAY NCT-B #19	ARNOTT RAMSAY NCT-B #16			ARNOTT RAMSAY NCT-B #6	ANNUTT HAMSAY NCT-8 #9	1		ARNOTT RAMSAY NCT-B #17		WELL LABEL	
	_	3400	3100		1001	353	3400	3600	3473 L	3620		100			000		3600	3450	100	3150		1	đ	
	IOC-INI	GAS	GAS	LOC-INJ	- LUUUNJ	DILIGGAS	0	PLUGOIL	LOC-INJ / TA	OIL	FLUGUL	DINCON	LOC-INI	LOC-INJ	OIL		OIL	OIL	OIL	2	LOC-INJ		WELL TYPE	
rucation-injection		+	RHODES: YATES-SEVEN RIVERS	Location-Injection	paggura	-	C_7 BV/BC			JALMAT; TAN-YATES-7 RVRS	Plugged	Cocation-Injection		Location-Injection	JALMAI; JAN-YATES-7 RVRS	THE TANK A TANK DUNG	ANGI IE MATTIX: 7 BUBC O CBAVBI IBC	LANGUE MATTIX; 7 RVRS-Q-GRAYBURG	JALWAI; IAN-YAIES-7 RVRS	recurrent this cutoff	Incation-Injustion		CURRENT ZONE	
2005	1047	7/07	REEC	2052	1968	7761	1011	1915	1784	1479	1426	LAUD	-	1186	937	176		910	796	-	>	Unstance		
	CCCT 107 1h	100/002	8/20/1001		6/13/1983	DRET /C/E	TI TI TI	4/14/1070	11/71/1081	1/13/1982	12/20/1978				4/26/1979	6/61/9/9	alciente parte	4/22/1980	9/6/1989			SPUD DAIE		
	CERT /8 /8	TEET IN7 IC	1001001		7/21/1983	086T/0T/0T	CICT ITT I	7007 107 15	1/20/1003	3/18/1982	1/19/1979				7/19/1979	6/8/1979	00CT 107 IC	5/79/1000	9/22/1989		T	USCANCE SPUD DATE COMP DATE TOWNSH		
100	255	Cq7		250	265	255	(1)		1	755	255	255	255	1	-	255	cc7	1	255	255		E TOWNSHI		
Ĭ	37E	3/5	310	H	37E	37E	3/6	3/5	10	77	37E	37E	378	1	375	37E	3/5		37E	37E	T	PRANG		
	32	5	76	3	Ś	32	32	52	70	3	32	32	32	1	CE	32	32	; ;	CE	32	T	IIP RANGE SECTION		
	330 FWL 990 FSL	1980 FWL 1100 FNL	ſ	+	1980 FEI 660 ENI	1980 FWL 1980 FNL	990 FEL 2130 FSL	990 FWL 1650 FSL	1480 FEL SOU FSL		1650 FFI 330 FSI	1340 FSL & 1330 FEL	2625 FNL & 2630 FEL	TOON LAND POL		1980 FEL 1980 FSL	1980 FWL 1980 FSL	TODALCTODALDT		1350 FSL & 2635 FEL		N FOOTAGE		
	32.082090	32.076350	32.087118	ULUI ULU	37 077570	32,088470	32.085240	32,083910	32,080760	00200070	UDCUBU CE	32,083079	32.086664	32.081190		32.084820	32.084820	001790'75	מחירמת רר	32.083084	SURFLAT	NAUL-	TCUAN	
	-103.191730	-103.186390	-103.188987		-102 102000	-103.186440	-103.178930	-103.189610	-103.180480	-TOTOTOTO	_		-103.184285	-103.186390	+	-	-103.186420	-103.182100		32.083084 -103.184291	SURFLON	NAU2/-		
	32.082214	32.076474	32.0872.42	32.011994	LOTEO CC	32 088594	32.085364	32.084034	32.080884	32.080414		EUCEBU CE	32.086788	32.081314	10.004944	NUDADU CE	32.084944	32.082224		SUCESU CE	SURFLAT	WGS84-		
	-103.192208	-103.186868	-103.189465	-103.187298	100.10010	-103 186018	-103.179408	-103.190088	-103.180958	-103.181498				-103.186868	-TOT TOT 200	Т	-103.186898	-103.182578	101101100	1027781 501- 80CE80 CE	SURFLON	WGS84-		

	30025262790000	SU 255-37E 321	MMMMT07C7MC	2001515100000	300251186200E	30025118630000	30025262780000	30025267570000	JU 233-5/E 52H		3002511835000F	30025118340000	0005211C200C		SU 25S-37E 32CC	SU 255-37E 32GG	0007969767000		SU 25S-37E 32BB	UWI/API	2
	HARTMAN DOYLE	FAE II Operating LLC	FAE II Operating LLC	CITENTON O 3 A INCOMPORATED		FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	AWERICAN INDAND RESUDACES COMPANY LLC	AMEDICAN INITAND DECOLIDEEE COMPANY	BURLESON LEWIS B INCORPORATED	AMERADA OLSEN & PEERLES	The independence	EAF II Onerating IIC	FAE II Operating LLC	FAE II Operating LLC	and an and a second	FAE II Operating II C	OPERATOR	
		<b>ARNOTT RAMSAY NCT-B #17</b>	ARNOTT RAMSAY NCT-B #4	AKNUTT RAMSAY NCT B #2			ARNOTT RAMSAY NCT-R #6	ARNOTT RAMSAY NCT-B #9	ARNOTT RAMSAY NCT-B #15	CHUSBY A #1		JENKINS 3	IMA HAYS 1	ANNUT I KAMISAY NCI-8#14		ARNOTT RAMSAY NCT-B #16	ARNOTT RAMSAY NCT-B #10	ANNOTI NAMISAT NUI-8 #18	ABNOTT BANKAY NOT B HIS	WELL LABEL	
000	ŝ		3600	3225	16/0	7070	ž	3450		3100	0.10	FVE	8576				3400			티	
LUDOIL		LOC-INJ	SWD	PLUGGAS	IA				LOC-INJ	PLUGGAS	- LOODING	PILIGGAS	DRY	LOC-INJ	COLUMN T	Incini	OIL	LOC-INJ		WELL TYPE	
Paggura		Instinution	SWD; SEVEN RIVERS-QUEEN	Plugged	TA	LANGUE MATTIX; / RVRS-Q-GRAYBURG	AUCHERATER, J INNO-4-ONAIBONG	ANGLE MATTIX: 7 BURS O GRAVELING	location-Injection	Plugged	Linggen	Discost	Plugged	Location-Injection	rocation-injection		JALMAT: TAN-YATES-7 RVRS	Location-Injection		CURRENT ZONE	
2682	COCY	Tree	2429	2415	2384	2175	CCD7	TOLE	1940	1848	RURT	217	1772	1436	1384	U.C.	0/5	0		Distance	
4/14/1979		a see the test	12/27/1978	8/22/1955	10/26/1956	4/6/1979	AL 177 14	A loo lanno		6261/EC/C	11/20/1951	OCET /67 /TT	11/20/2007			DOCT IC IC	0/5/1000			Distance SPUD DATE COMP DATE TOWNS	
7/11/1979		Cierti h	2/7/1979	10/9/1955	3/8/1957	6/8/1979	0861/87/5	T Inn Innen	They had had	10/74/1979	5/12/1952	/SET/TE/T	+ Ine lanna			OBGT /OT /OT	10/10/1000			COMP DATE	
255	255		750	250	252	255	252	2		750	255	255		150	25S	255		250		TOWNSH	
37F	37E	3/6	370	275	37E	37E	37E	375	3/6	370	37E	37E	3/6	ž	37E	3/5	3/6	375		IP RANG	
3	32	ž	3 4	3	32	32	32	32	0	3	99	8	32	3	32	32	36	3		SHIP RANGE SECTION	
000 EEI 3130 ECI	1350 FSL & 2635 FEL	330 FWL 330 FNL	DOULET TOOLLAN		600 EEI 660 ENI	1980 FEL 1980 FSL	1980 FWL 1980 FSL	2455 FNL & 1195 FWL	1980 FEL 660 FSL		1980 EWI 760 ECI	1980 FWL 660 FSL	1060 FNL & 1160 FWL		2625 ENI & 2630 EEI	1980 FWL 1980 FNL	1113 FNL & 2495 FWL	1112 FMI 0 3407 514	- COLAGE		
33 005340	32.083084	32.092990	27/088/00	071760'7C	חרורמח כב	32.084820	32,084820	32.087118	32.095740	0000076	22 00000	32.095730	32.090940	02.00000	ANDRO CE	32.088470	32.09080		SURFLAT	NAD27-	
+	-103.184291	-103.191800	-103.177890	+	+	-	-103.186420	-103.188987	-103,182200	+	-	-103,186480	-103.189133	C0760T'CNT.	_	-103.186440	32.090808 -103.184803 32.090932 -103.185281		SURFLON	NAD27-	
	32.083208	32.093114	32.088624	32.092244	TT CTOULE	37 084944	32.084944	32.087242	32.095864	32.0961.24		32.095854	32.091064	32.080/88		32.088594	32.090932	2010	SURFIAT	WGS84-	
	-103.184769	-103.192278	-103.178368	-103.178208	00.707.01	-103 187509	-103 186898	-103.189465	-103.182678	-103.186958		-103.186958	-103,189611	-103.184763		-103.186918	-103.185281	JUNFLUIN	CIIDEION	WGS84-	

COMPLIATE TOTAL	300051187400m	30025118810000	30025262800000	0001579757000		2003511055000	30025281140000	30025118620000	SU_25S-37E_32GG	100 310-00	110 375 371	30025261050000		30025262780000	30025262790000	MMTCC/2C200C	20035375510000	30025306550000	1176 3/ 6-667 06	CII 755.375 371	UWI/API	
LWC II Obergring LTC		CIMAREX ENERGY CO DE COLORADO	FAE II Operating LLC	FAE II Operating LLC	CLI NOUNAL GAS CUMPANT	EI BACO NATIBAL CAS COMPANY	CIMAREX ENERGY CO DE COLOBADO	CHEVRON U S A INCORPORATED	FAE II Operating LLC	FAE II Operating LLC		HARTMAN DOYLE	I WE II OPERATING LEG	EAE II Operating II C	HARTMAN DOYLE	rat II Operating LLC		FAE II Operating LLC	FAE II Operating LLC		OPERATOR	
K U GREGORY #3	11.11/		ARNOTT RAMSAY NCT-B #8	ARNOTT RAMSAY NCT-B #9	L	ſ			ARNOTT RAMSAY NCT-B #16	ARNOTT RAMSAY NCT-B #17		ARNOTT RAMSAY NCT-B #S	ARNUTI KAMSAT NCI-8 #6		ARNOTT RAMSAY NCT-B #7	ARNOTT RAMSAY NCT-B #12			ARNOTT RAMSAY NCT-B #19		WELL LABEL	
3285	T	1	3630	3450	3290	t	1	3775			t	3500	3600	t	3600	3620	CTC .	3460			TO	
OIL	PLUGUIL		01	잍	PLUGGAS	PLUGGAS	LUQUAD	SHICCAC	LOC-INI	LOC-INJ	LOOOL	PILIGON	OIL	- FOODE	PILIGON	OIL	OF.	2	LOC-INJ		WELL TYPE	
JALMAT; TAN-YATES-7 RVRS	Plugged	STORE IN THE PARTY AND	JAI MAT: TAN-YATES-7 BV/BS	LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG	Plugged	Plugged	riugged	Location Infection	Instint-Injection	Location-Injection	riugged	Discord	LANGLIE MATTIX: 7 RVRS-O-GRAYBURG	LINGEN	Diuggod	JALMAT: TAN-YATES-7 RVRS	JALMA I; JAN-YATES-7 RVRS		Location-Injection		CURRENT ZONE	
2339	2215	CET 7	2010	2189	2161	1947	1933	TOHO	1040	1406	6/6		897	auto		787	754	•	0		Distance	
8/16/1960	9/12/1954	6/67 lo7 lh	1/10/1070	4/27/1980	1/14/1937	6/13/1983	8/22/1955				12/20/1978	citer lo li	4/6/1979	4/14/19/9	a la a la anon	1/13/1087	9/6/1989				SPUD DATE	
10/4/1960	10/1/1954	6/6T/6T/I	0002 02 02 10	5/28/1080	4/6/1937	7/21/1983	10/9/1955				1/19/1979	cict lo lo	6/9/1070	//11/1979	20CT INT IC	C001/81/E	9/22/1989			1110	Distance SPUD DATE COMP DATE TOWNSHIP RANGE SECTION	
250	255	252		750	265	265	255	255	0	JEC	252	0	760	25S	0	750	25S	CC7	-	10101	FIDWNSH	
375	37E	37E	2/1	370	37E	37E	37E	37E	3/6	Ĩ	37E	3/6	370	37E	3/6	Ŧ	37E	3/1	:	IL INTERIO	IP RANGE	
#	ដ	32	70	5	5	S	32	32	75	3	32	32	,	32	32	;	32	32	;	SECTION	SECTION	
660 EWI 330 EEI	660 FWL 1980 FSL	1980 FWL 660 FSL	TRAINERT TAM LOF	1000 0111 1000 001	OGN EFI GON ENI	1980 FEL 660 FNL	660 FEL 1980 FNL	2625 FNL & 2630 FEL	1350 FSL & 2635 FEL		1650 FFI 330 FSI	154 0R61 180 FSL	1000 571 4000 501	990 FEL 2130 FSL	1480 FEL SUU FSL		1980 FEI 990 ESI	1340 FSL & 1330 FEL		FUULAGE	CONTACE	
	32.084840	32.081190	32.084820	000010.75	בייייייייייייייייייייייייייייייייייייי	32.077570	32,088500	32.086664	32.083084	00200075	חסכטפט כב	32.084820		32.085740	32.080760	001200-20	NULCEU CE	32.083075	110 1100	SURFIAT	NAD27-	
+	-103.173600	-103.186390	-103.186420	+	+	-	-103.177890	-103.184285	-103.184291	+	-	-103.182120	+	-103 178930	-103.180480	ONTZOT COT.	103 103100	32.083079 -103.180047 32.083203 -103.180525	LOI LOI	SURFION	NAD27-	
1001001	17 094964	32.081314	32.084944	32.0/0/84		33 032604	32.088624	32.086788	32.083208	32.000414		32.084944	Dercon'se	אז טאבאני	32.080884	32.082224	ארררמה רר	32.083203	JUNION	CIIDEI AT	WGS84-	
	-103 174078	-103,186368	-103.186898	-103.1/93/8	T			-103.184763	-103.184769	-103.181498		-103,182598	ONHC/T'COT-		-103.180958	-103.18/C/8		-103.180525	JUNFLUN		WGS84-	

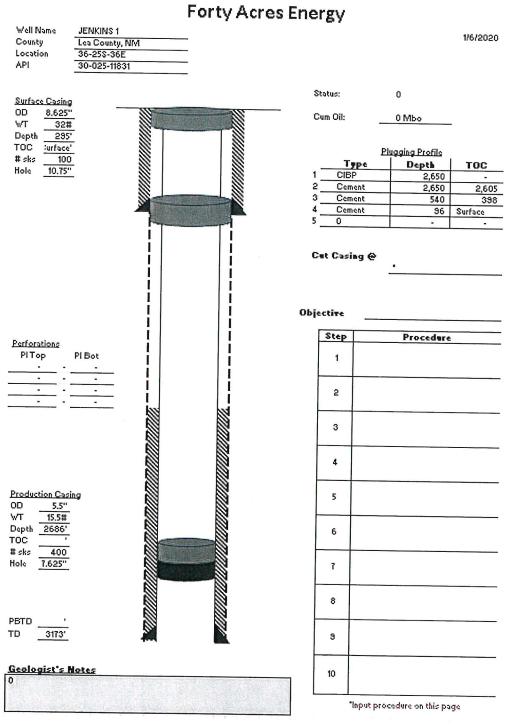
#### IMA Hays 1

API# 30-025-11823 1980 FWL 660 FSL, Sec 29, T25S, R37E Lea Co., NM



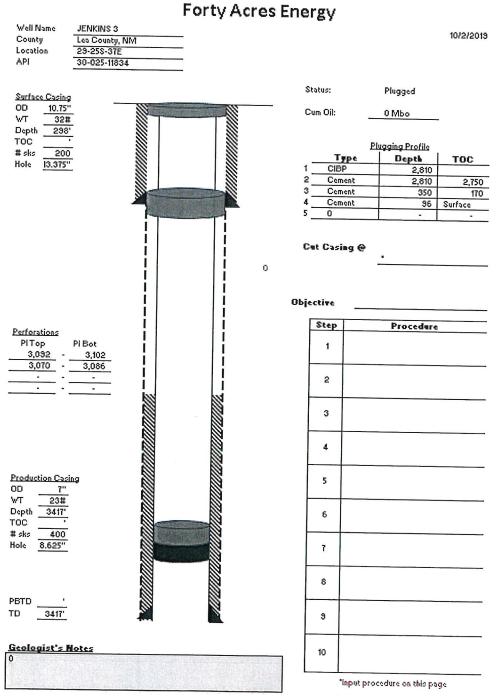
#### **JENKINS** 1

API# 30-025-11831 1980 FEL 1980 FSL, Sec 36, T25S, R36E Lea Co., NM



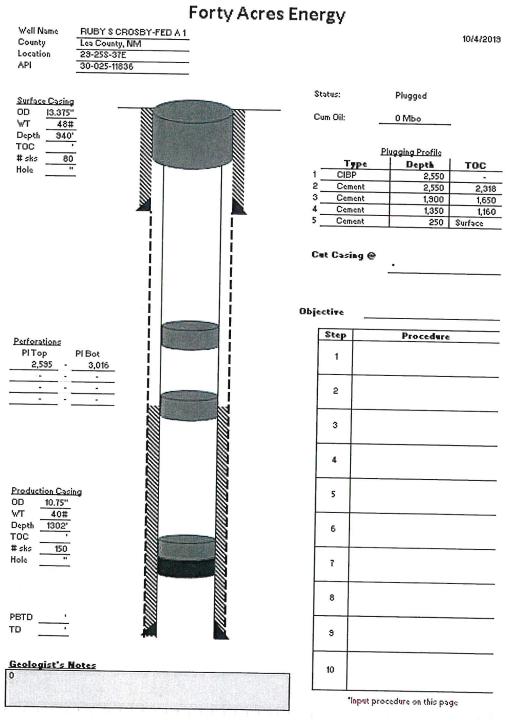
#### JENKINS #3

API# 30-025-11834 760 FSL 1980 FWL, Sec 29, T25S, R37E Lea Co., NM



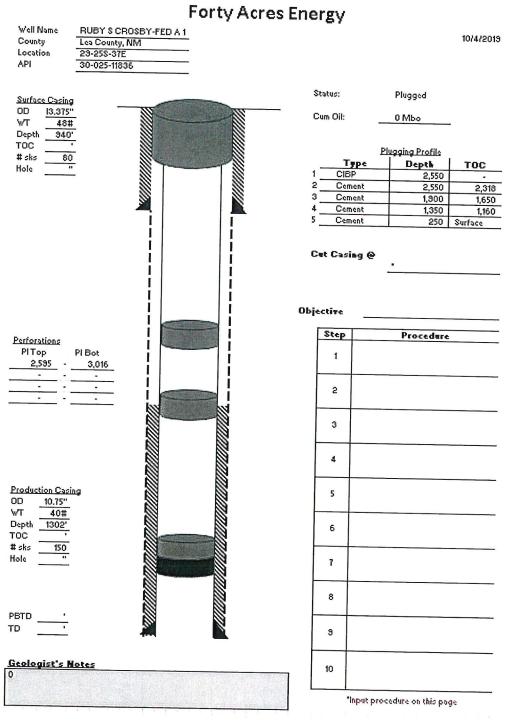
#### CROSBY A #1

API# 30-025-11836 1980 FEL 660 FSL, Sec 29, T25S, R37E Lea Co., NM



#### WINNINGHAM 6

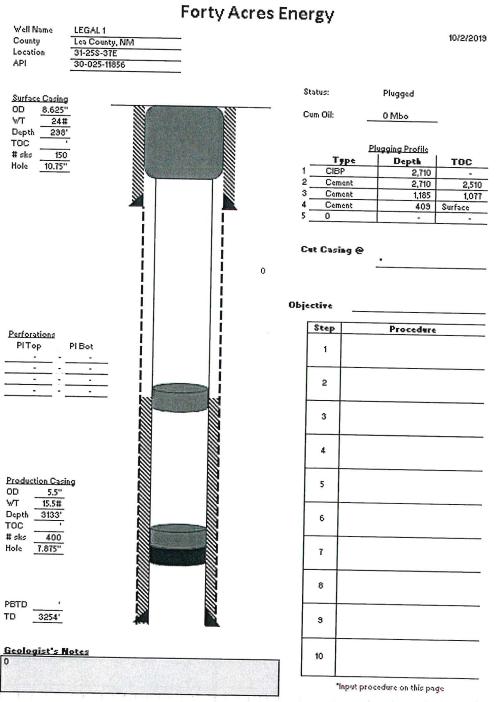
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<sup>23</sup> 

#### LEGAL #1

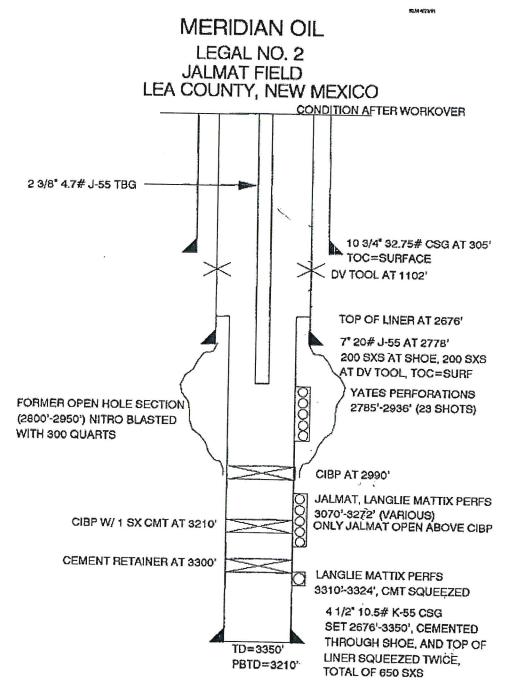
API# 30-025-11856 660 FEL 660 FSL, Sec 31, T25S, R37E Lea Co., NM



<sup>24</sup> 

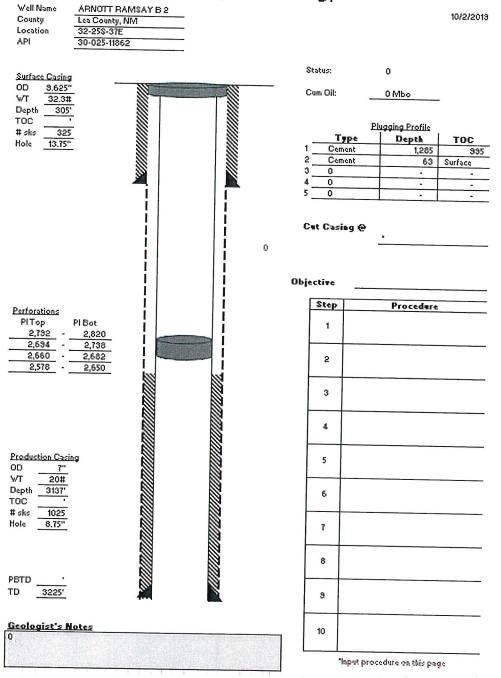
#### M F LEGAL #2

API# 30-025-11857 660 FEL 1980 FSL, Sec 31, T25S, R37E Lea Co., NM



#### ARNOTT RAMSAY NCT B #2

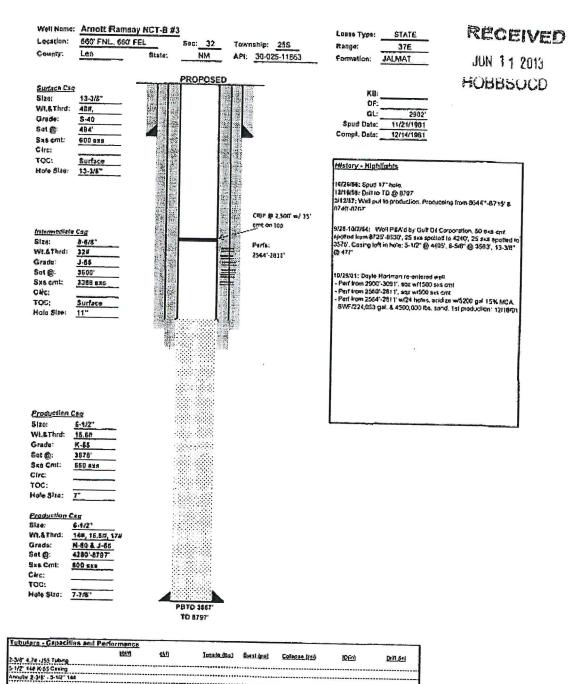
API# 30-025-11862 660 FEL 1980 FNL, Sec 32, T25S, R37E Lea Co., NM



**Forty Acres Energy** 

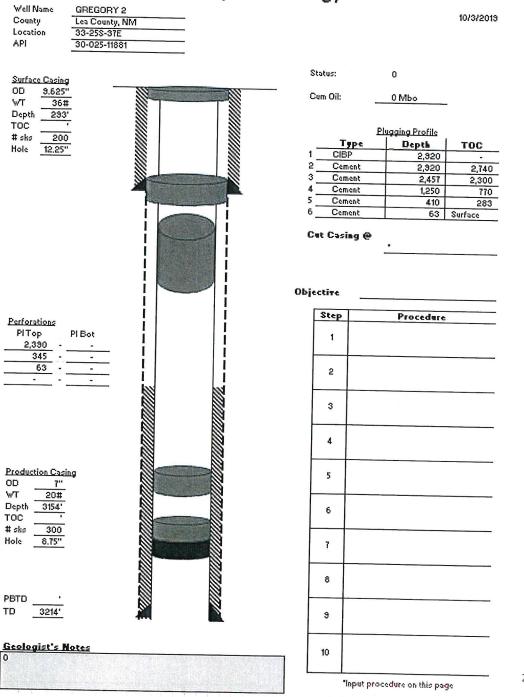
#### ARNOTT RAMSAY NCT-B #3

API# 30-025-11863 660 FEL 660 FNL, Sec 32, T25S, R37E Lea Co., NM



#### EL PASO TOM FEDERAL #7

API# 30-025-11881 660 FEL 660 FSL, Sec 33, T25S, R37E Lea Co., NM

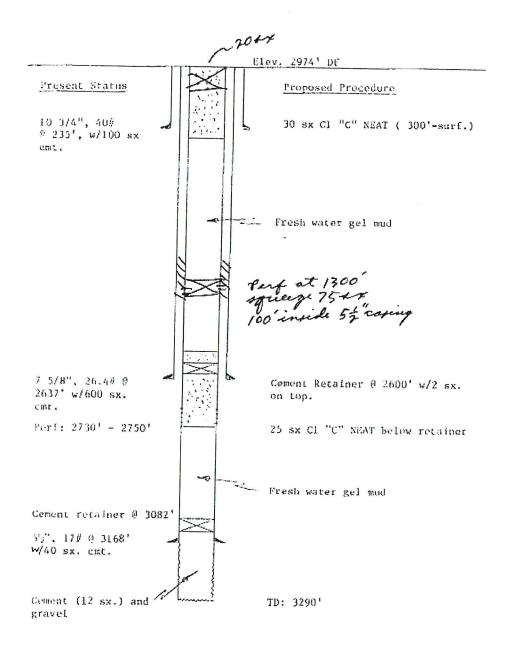


Forty Acres Energy

#### SHEPARD-FEDERAL B 3

API# 30-025-11955 660 FNL 990 FEL, Sec 5, T26S, R37E Lea Co., NM

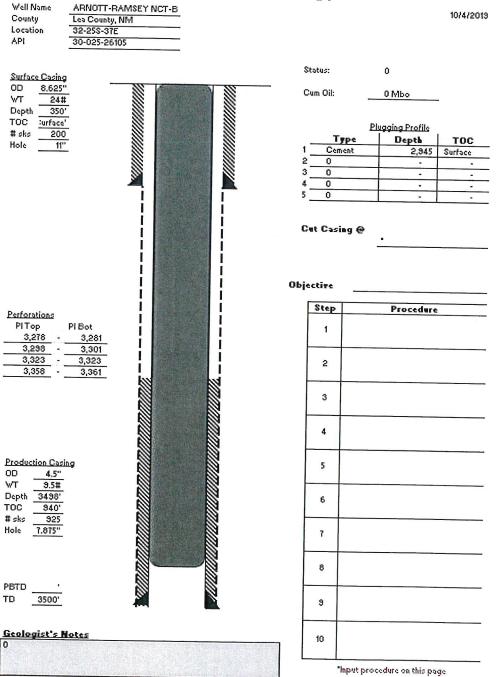
> Sheperd "B" No. 3 Lea County, New Mexico Proposed P & A Procedure



#### VI. Exhibit C12 ARNOTT RAMSAY NCT-B #5

API# 30-025-26105 1650 FEL 330 FSL,

Sec 32, T25S, R37E Lea Co., NM



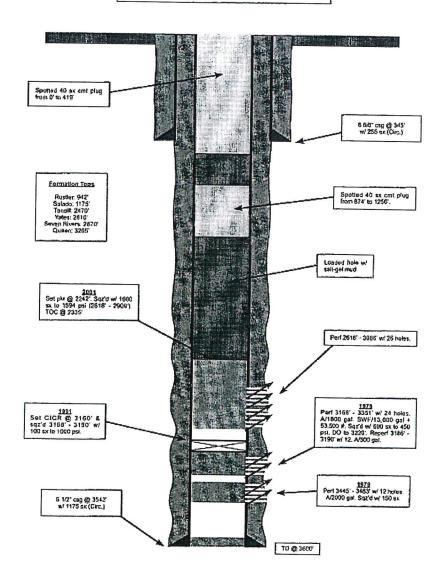
**Forty Acres Energy** 

#### ARNOTT RAMSAY NCT-B #7

API# 30-025-26279 990 FEL 2130 FSL, Sec 32, T25S, R37E Lea Co., NM

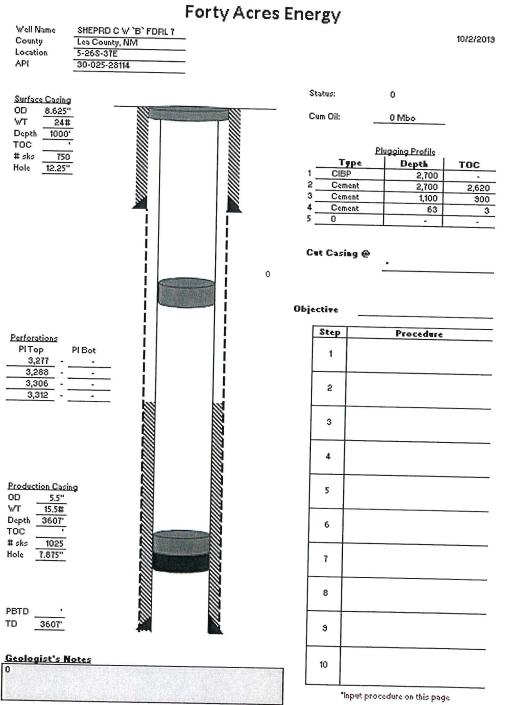
> Page 3 of 3 NUCCO Form C-100 caned 38467305 Cayle Horman Arrest Roman, NOT 6: No. F A32-355-376 All No. 33425-39270

Wellbore Schematic Plugging and Abandonment Procedure Arnott Ramsay "NCT-B" No. 7 2310' FSL & 990' FWL (Unit I) Section 32, T-25-S, R-37-E Lea County, NM Doyle Hartman



#### VI. Exhibit C14 RHODES FEDERAL UNIT #52

API# 30-025-28114 660 FEL 660 FNL, Sec 5, T26S, R37E Lea Co., NM



#### **VII. Proposed Injection Operation**

- 1. Average injection rate target will be ~350 bpd. Maximum injection rate will be 800 bpd. These numbers are based off of typical injection rates in nearby Yates-Seven Rivers-Queen water floods.
- 2. The system will be a closed system. The injection well will not be made available for commercial disposal purposes.
- 3. Average injection pressure will be ~600 psi. Maximum injection pressure will be calculated relative to the depth of the highest perforation, using a factor of 0.2 psi/ft. The proposed injector will have perforation depths of approximately 3,100' (or 620 psi maximum injection pressure). Pending results of a step rate test, the maximum injection pressure could potentially be increased to a factor of 0.6 psi/ft (or 1,860 psi at 3,100').
- 4. The water source will be produced water from a nearby wells and water transfer lines.
- 5. Injection will be into the Seven Rivers formation, which is immediately productive in the area.

#### VIII. Geologic Data

The waterflood will be injecting into the Seven Rivers reservoir. The portion that will be injected consists mainly of sandstones interbedded with dolomites and anhydrites. The reservoir quality rocks have porosities ranging from 10% to 20% and averages around 16%.

Formation	Offset Top (ARNOTT RAMSAY NCT-B #11) 30-025-26963	Contents
Alluvium	GL	Fresh Water
Rustler	927	Anhydrite
Salado (top of salt)	1050	Salt
Tansil (base of salt)	2590	Gas, Oil, & Water
Yates	2740	Gas, Oil, & Water
Seven Rivers	2996	Gas, Oil, & Water
SR Injection Interval	3100-3300	Gas, Oil, & Water
Queen	4100	Gas, Oil, & Water
Total Depth	3950	

Formation Tops Are:

#### IX. Proposed Stimulation Program

The new drill injector will be acidized with 3,000 gal 15% HCl for each set of perforations. Acid in the Seven Rivers formation is known to break down the perfs and cause injection at lower pressures vs perforating alone. The injectors will not be sand frac'd so there will be better vertical conformance.

#### X. Logging and Test Data for Wells

The ARNOTT RAMSAY NCT-B #11 will be converted from a producer to an injector. The well logs for this well have been submitted to the NMOCD previously.

Test Data for the above mentioned well is as follows:

<u>Date</u>: 1-20-1982

Perf Interval: 3270-81' w/16 holes (an interval between 3354-62' was cement squeezed) Method: 1200 gals 15% slick NEFE HCL, (8) 7/8" RCNB's, 10500 gals 70 qual foam, & 12000# 20/40 sand.

Result: 24 hour test, 25 bbls oil, 24 bbls water, & 64 mcf gas on 36/64" choke.

<u>Date</u>: 9-9-1999 <u>Perf Interval</u>: 2743-3050' w/25 holes (lower perfs were cement squeezed) <u>Method</u>: Acidize perfs with 7668 gal 15% MCA acid and 44 ball sealers. <u>Result</u>: 190 MCFPD and 3 BOPD

The other 6 wells will be new drill injector wells.

#### XI. Chemical Analysis of Fresh Water Wells

According to records from the Office of the State Engineer (Exhibit D1-7a & D1-7b) there are between 7 and 14 active water wells within the 1 mile radius around the proposed ARNOTT RAMSAY NCT-B #11, #14, #15, #16, #17, #18, and #19. The ARNOTT RAMSAY NCT-B #14, #16, #17, and #19 have active water wells within a <sup>1</sup>/<sub>2</sub> mile radius.

FAE II Operating, LLC has obtained water analyses on 3 fresh water wells between 0.4 and 1.3 miles from the proposed injectors. The three water wells are the CP-01304, CP-01306, and CP-01308. The CP-01304, is 0.7 miles away from the AR NCT-B #11, 1 mile away from the AR NCT-B #14, 0.8 miles away from the AR NCT-B #15, 1 mile away from the AR NCT-B #16, 0.9 miles away from the AR NCT-B #17, is 1.1 miles away from the AR NCT-B #18, 1.2 miles away from the AR NCT-B #19, 459' (md) deep, with water found at 285' (md), and is considered an "artesian" water from the Dockum Aquifer. The second well, the CP-01306, is 0.8 miles away from the AR NCT-B #11, is 0.4 miles away from the AR NCT-B #14, is 0.6 miles away from the AR NCT-B #15, is 0.8 miles away from the AR NCT-B #16, is 1.0 mile away from the AR NCT-B #17, is 0.5 miles away from the AR NCT-B #18, is 1.1 miles away from the AR NCT-B #19, 458' (md) deep, with water found at 110' (md), and is considered an "artesian" water from the Dockum Aquifer. The third well, the CP-01308, is 0.8 miles away from the AR NCT-B #11, is 0.5 miles away from the AR NCT-B #14, is 0.7 miles away from the AR NCT-B #15, is 0.9 miles away from the AR NCT-B #16, is 1.1 mile away from the AR NCT-B #17, is 0.8 miles away from the AR NCT-B #18, is 1.3 miles away from the AR NCT-B #19, 420' (md) deep, with water found at 210' (md), and is considered an "artesian" water from the Dockum Aquifer. See Exhibits E1, E2, and E3.

XII. Based on the available geologic and engineering data, it has been determined that there is no evidence of open faults or any other hydrologic connection between the injection zone and shallow fresh water sources.

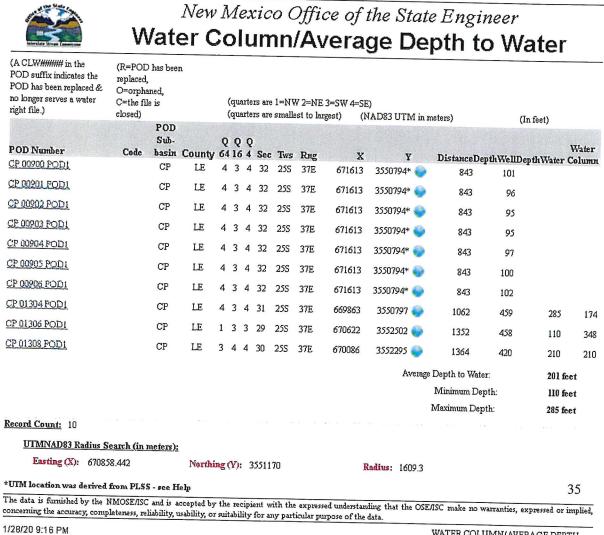
**XIII**. FAE II OPERATING, LLC, FULFER OIL & CATTLE COMPANY LLC, and LANEXCO INCORPORATED are the offset operators.

### Well: ARNOTT RAMSAY NCT-B #11 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>990 FWL 1650 FSL</u> ~ County: Lea

XI. Exhibit D1a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 670858.442 mtrs Northing (Y): 3551170.032 mtrs

#### Water Wells Within 1 Mile Radius \*\* 10 ACTIVE \*\*



### Well: ARNOTT RAMSAY NCT-B #11 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>990 FWL 1650 FSL</u>~ County: Lea

#### XI. Exhibit D1b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 670858.442 mtrs Northing (Y): 3551170.032 mtrs



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

	(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fil closed)	ned,	n						V 2=NE est to lar	3=SW 4=SE gest) (h	E) NAD83 UTM in n	neters)	(In feet)		
	POD Number	Code	POD Sub- basin	County		Q 16			Tws	Rug	x	¥				Water
	CP 00900 POD1		CP	LE		3			255	37E	671613	3550794*	843	thWellDepthW 101	ater (	.olumn
	CP 00901 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🦲	843	96		
	CP 00902 POD1		CP	LE	4	3	4	32	255	37E	671613	3550794*	843	90 95		
	CP 00903 POD1		CP	LE	4	3	4	32	255	37E	671613	3550794*				
Water	CP 00904 POD1		CP	LE	4	3							843	95		
Analysis					4	د	4	32	25S	37E	671613	3550794* 🌍	843	97		
Available	CP 00905 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🌍	843	100		
	CP 00906 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🌍	843	102		
0.7 Miles away	CP 01304 POD1		CP	LE	4	3	4	31	25S	37E	669863	3550797 🌍	1062		285	174
0.8 Miles away	CP 01306 POD1		CP	LE	1	3	3	29	255	37E	670622	3552502				
0.8 Miles away	CP 01308 POD1		CP	LE	3		-	-	-	-			1352	458	110	348
			UF	LE	5	4	4	30	255	37E	670086	3552295 🌍	1364	420	210	210

3	4	4	30	255	37E	670086

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 670858.442 Northing (Y): 3551170

Radius: 1609.3

Average Depth to Water:

Minimum Depth:

Maximum Depth:

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/28/20 9:16 PM

WATER COLUMN/AVERAGE DEPTH TO WATER

201 feet

110 feet

285 feet

### Well: ARNOTT RAMSAY NCT-B #14 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>1060 FNL 1160 FWL</u> ~ County: Lea

XI. Exhibit D2a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 670890.376 mtrs Northing (Y): 3551950.192 mtrs

#### Water Wells Within 1 Mile Radius \*\* 14 ACTIVE \*\*



(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	replaced	aned,							V 2=NE est to la	.3=SW 4=S ngest) (1	E) NAD83 UTM in :	meters)	(In fe	et)	
		POD Sub-										Sec. 1	(	,	
POD Number	Code	ALC: NOT THE OWNER OF THE OWNER	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	x	Y	Distance	diffine a	1	Water
CP 01306 FOD1		CP	LE		3			25S	37E	670622	A DATE OF THE REAL PROPERTY OF	613	thWellDepth 458	Water C 110	olumn 348
P 01308 POD1		CP	LE	3	4	4	30	25S	37E	670086	3552295 🧼	875	420	210	210
P 01256 POD4		CP	LE	3	2	3	29	25S	37E	670994	3552889 🥌	944	440	210	230
P 01256 FOD3		CP	LE	4	1	3	29	25S	37E	670707	3552893 🍛	961	450	190	250
CP 00900 FOD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥌	1363	101	190	200
P 00901 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥌	1363	96		
P 00902 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥘	1363	95		
P.00903 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍛	1363	95		
P.00204 POD1		CP	LE	4	3	4	32	255	37E	671613	3550794*	1363	97		
P 00205 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*	1363	100		
P 00906 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*	1363	102		
P 00387		CP	LE		3	2	29	255	37E	671472	3553308*	1477	422	210	
P 01304 POD1		CP	LE	4	3	4	31	25S	37E	669863	3550797	1477	422	210	212
P 00774		CP	LE			1	29	255	37E	670869	3553495*	1544	409	285	174
										010005				60	40
											Average	Depth to Water Minimum Dep		182 fee	-
												Maximum Dept		60 fee 285 fee	-
ecord Count: 14														205 166	
UTMNAD83 Radius	Search (in 1	meters):													
Easting (X): 670			Northin	ng (	Y):	3	5519	50.192	9	11	Radius: 1609.3				
UTM location was derive	I from DI Co					-			0		1009.3				1
ne data is furnished by the ncerning the accuracy, cor			-												

1/29/20 11:10 AM

### Well: ARNOTT RAMSAY NCT-B #14 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>1060 FNL 1160 FWL</u>~ County: Lea

#### XI. Exhibit D2b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 670890.376 mtrs Northing (Y): 3551950.192 mtrs



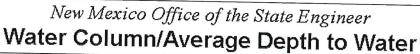
	(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	l		-				V 2=NE est to lar	3=SW 4=SI gest) (1	E) JAD83 UTM in 1	neters)	(In fe	et)	
		POD Sub-		0	Q	•							1 Action		1
	POD Number		County				Sec	Tws	Rng	x	Y	DistanceDept	hWellBenth		Vater
0.4 Miles away	CP 01306 POD1	CP	LE		3		29	25S	37E	670622	3552502 🌍	613	458	110	348
0.5 Miles away	CP 01308 POD1	CP	LE	3	4	4	30	25S	37E	670086	3552295 🌑	875	420	210	210
	CF 01256 POD4	CP	LE	3	2	3	29	25S	37E	670994	3552889 😜	944	440	210	230
	CP 01256 POD3	CP	LE	4	1	3	29	25S	37E	670707	3552893 🥌	961	450	190	260
	CP 00900 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍋	1363	101	170	200
Water	CP 00901 POD1	CP	LE	4	3	4	32	25S	37E	671613	3550794*	1363	96		
Analysis	CF 00902 POD1	CP	LE		3			255	37E	671613	3550794*	1363			
Available	CP 00903 POD1	CP	LE		3			25S	37E	671613	3550794*		95		
	CP 00904 POD1	CP	LE					25S	37E	671613		1363	95		
	CP 00905 POD1	CP	LE								3550794* 🌍	1363	97		
	CP 00906 POD1				3			255	37E	671613	3550794* 🌍	1363	100		
		CP	LE	4				255	37E	671613	3550794* 🌍	1363	102		
1.0.161	<u>CP 00387</u>	CP	LE	-	3	2 :	29	25S	37E	671472	3553308* 🌍	1477	422	210	212
1.0 Miles away	CP 01304 POD1	CP	LE	4	3 4	4 3	31	25S	37E	669863	3550797 🌑	1544	459	285	174
	<u>CP 00774</u>	CP	LE		1	1 2	29	25S	37E	670869	3553495* 🌍	1544	100	60	40
											Average	Depth to Water:		182 feet	
											-	Minimum Dept	h:	60 feet	
												Maximum Depth		285 feet	
	Record Count: 14														
	UTMNAD83 Radius	Search (in meters):													
	Easting (X): 6708	-	Northi	ng (	Y):	35	519	50.192	2	I	Radius: 1609.3				
	*UTM location was derived	from PLSS - see He	-h												
	The data is furnished by the	NMOSEASC and is ac	cepted by	the	rec	ipier	nt w	ith th	express	ed understan	ding that the OSE	ASC make no way	manties even	and or in	nliad
		pleteness, reliability, u	ability, or	suit	abili	ty fi	or ar	iy par	icular pu	pose of the	data.				
	1/29/20 11:10 AM											WATER COLUI TO WATER	MN/AVERA(	JE DEPTI	ł

### Well: ARNOTT RAMSAY NCT-B #15 Location: Twn 25S Rge 37E Sec 32 Footages: ~2455 FNL 1195 FWL ~ County: Lea

XI. Exhibit D3a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 670911.274 mtrs Northing (Y): 3551526.685 mtrs

#### Water Wells Within 1 Mile Radius \*\* 12ACTIVE \*\*



(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POI replaced O=orpha C=the fi closed)	aned, le is	ı						W 2=NE est to lar	3=SW 4=SE gest) (N	) IAD83 UTM in 1	neters)	(In f	eet)	
		POD Sub-		0	0	Q								Sector.	
POD Number	Code		County	64	116	54	Sec	Tws	Rng	x	Y	DistanceDept	LULUDand		Water
CP 00900 POD1		CP	LE	4				25S	37E	671613	3550794*	1014	101	nvvaler	Column
<u>CP 00901 POD1</u>		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🌍	1014	96		
<u>CP 00902 POD1</u>		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥌	1014	95		
<u> 77 00903 POD1</u>		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥌	1014	95		
<u> 200904 FOD1</u>		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🌑	1014	97		
<u> P 00905 PODI</u>		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥌	1014	100		
CP 00906 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥌	1014	102		
<u> 29 01 306 POD1</u>		CP	LE	1	3	3	29	25S	37E	670622	3552502	1017	458	110	34
<u>P 01308 POD1</u>		CP	LE	3	4	4	30	25S	37E	670086	3552295	1127	420	210	210
<u> P 01304 POD1</u>		CP	LE	4	3	4	31	25S	37E	669863	3550797 🍛	1277	459	285	174
P 01256 POD4		CP	LE	3	2	3	29	25S	37E	670994	3552889	1365	440	285	
P 01256 POD3		CP	LE	4	1	3	29	25S	37E	670707	3552893	1382	450	190	230
													420		260
											Average	Depth to Water:		201 fe	
												Minimum Dept		110 fe	
ecord Count: 12												Maximum Depth	:	285 fe	et
	<i>l</i> //														
UTMNAD83 Radius S Easting (X): 67091		<u>meters):</u>	Mantha		20			04 40	_						
UTM location was derived	from PLS:										adius: 1609.3				39
he data is furnished by the l incerning the accuracy, comp	имозеляс	and is a	ccepted by	the	e re	cipi	ent v	rith the	express	ed understand	ling that the OSE	ISC make no make	~~~~		

### Well: ARNOTT RAMSAY NCT-B #15 Location: Twn 25S Rge 37E Sec 32 Footages: ~2455 FNL 1195 FWL~ County: Lea

#### XI. Exhibit D3b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 670911.274 mtrs Northing (Y): 3551526.685 mtrs



	(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)						W 2=NI lest to la	E 3=SW 4=S urgest) (	E) NAD83 UTM in	meters)	(In fe	eet)	
		POD						an in	a shere	State State of	AN CAL	Sec. Sec.	and the	Sales and
	POD Number	Sub- Code basin (	Country	8	Q (	Q								Water
	CP 00900 POD1	CP	LE		3				X 671613		DistanceDep		Water	Column
	CP 00901 FOD1									-	1014	101		
		CP	LE	4	3 4	4 33	2 255	37E	671613	3550794* 🌍	1014	96		
Water	CP 00902 POD1	CP	LE	4	3 4	4 32	2 255	37E	671613	3550794* 🌍	1014	95		
Analysis	CP 00903 POD1	CP	LE	4	3 4	4 32	255	37E	671613	3550794* 🌍	1014	95		
Available	CP 00904 POD1	CP	LE	4	3 4	4 32	255	37E	671613	3550794* 🌍	1014	97		
	CP 00905 POD1	CP	LE	4	3 4	4 32	25S	37E	671613	3550794* 🌍	1014	100		
	CP 00906 POD1	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🥪	1014	102		
0.6 Miles away	CP 01306 POD1	CP	LE	1	33	29	255	37E	670622	3552502 🍛	1017	458	110	348
0.7 Miles away	CP 01308 POD1	CP	LE	3	4 4	30	255	37E	670086	3552295 🌍	1127	420	210	210
0.8 Miles away	CP 01304 POD1	CP	LE	4	34	31	255	37E	669863	3550797 🌍	1277	459	285	174
	CP 01256 POD4	CP	LE	3	23	29	255	37E	670994	3552889	1365	440	210	230
	CP 01256 FOD3	CP	LE	4	1 3	29	25S	37E	670707	3552893 🌍	1382	450	190	260
										Averag	e Depth to Water		201 fe	at
											Minimum Dep		110 fe	
											Maximum Dept		285 fe	
	Record Count: 12												205 10	
	UTMNAD83 Radius S	iearch (in meters):												
	Easting (X): 67091	11.274	Northi	ng (	Y):	3551	1526.68	5		Radius: 1609.3				
	*UTM location was derived													
	The data is furnished by the 1 concerning the accuracy, comp	NMOSEASC and is accordent	epted by ability or	the	recip	pient	with th	e expres	sed understa	nding that the OS	EASC make no wa	uranties, expr	essed or	implied,
	1/29/20 11:20 AM			Just		, 101	and har	ncular p	mbose of fu	e dată.	WATER COLU	MN/AVERA	40 DEP	тн

### Well: ARNOTT RAMSAY NCT-B #16 Location: Twn 25S Rge 37E Sec 32 Footages: ~2625 FNL 2630 FEL ~ County: Lea

XI. Exhibit D4a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671355.927 mtrs Northing (Y): 3551483.815 mtrs

#### Water Wells Within 1 Mile Radius \*\* 11 ACTIVE \*\*



(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=PO) replaced O=orph C=the f closed)	naned, ile is	ı						W 2=NE est to la	: 3=SW 4=SE rgest) (1	5) VAD83 UTM in :	meters)	(In fee	t)	
		POD Sub-		0	Q								State 1		
POD Number	Code		County					Tws	Rng	x	Y	DistanceDept	WallDerthy	TT- 4	Water
CP 00900 POD1		CP	LE	4					37E	671613	3550794* 🌍	736	101	vater	Column
<u>CP 00901 POD1</u>		CP	LE	4	3	4	32	25S	37E	671613	3550794* 😜	736	96		
<u>CP 00902 POD1</u>		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🌍	736	95		
CP 00903 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥌	736	95		
CP 00904 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 😜	736	97		
<u>CP 00905 POD1</u>		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🌍	736	100		
<u>CP 00906 POD1</u>		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥌	736	102		
<u>CP 01306 POD1</u>		CP	LE	1	3	3	29	25S	37E	670622	3552502 🌍	1255	458	110	348
CP 01256 POD4		CP	LE	3	2	3	29	25S	37E	670994	3552889 🌑	1451	440	210	230
<u>CP 01308 POD1</u>		CP	LE	3	4	4	30	25S	37E	670086	3552295 🌍	1506	420	210	210
<u>CP 01256 POD3</u>		CP	LE	4	1	3	29	25S	37E	670707	3552893 🌍	1552	450	190	260
											Averag	e Depth to Water:		180 f	et
												Minimum Deptl	<b>1</b> :	110 fe	eet
												Maximum Depth	:	210 fe	et
Record Count: 11															
UTMNAD83 Radius	Search (in	meters):													
Easting (X): 6713	355.927		Northi	ing	(Y)	: 3	15514	183.81	5	I	ladius: 1609.3				
UTM location was derived	from PL	55 - see H	շեթ												41
he data is furnished by the oncerning the accuracy, com	NMOSEЛS	C and is a	cepted by	r th	e re	cipi	ent v	vith th	e expres	sed understan	ding that the OSI	EASC make no war	ranties, expres	sed or	implied
oncerning the accuracy, com	ipleteness, r	ehability, u	sability, or	r sui	tabi	lity	for a	ny par	ticular pu	irpose of the	data.		,		multined,

### Well: ARNOTT RAMSAY NCT-B #16 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>2625 FNL 2630 FEL</u>~ County: Lea

### XI. Exhibit D4b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671355.927 mtrs Northing (Y): 3551483.815 mtrs

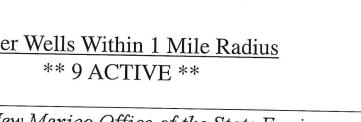


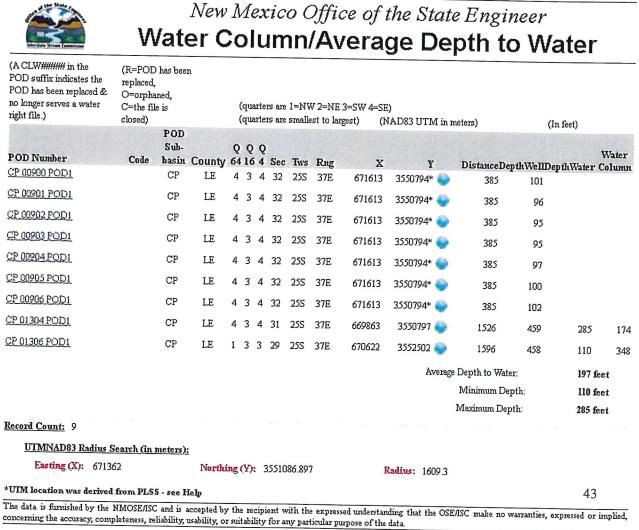
	(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has b replaced, O=orphaned, C=the file is closed)							V 2=NE st to lar	.3=SW 4=SE gest) (P	E) JAD83 UTM in 1	neters)	(In f	èet)	
		PO										in the second second	(1		
	DOD N. J	Su			Q										Water
	POD Number		in County						Rng	x	Y	DistanceDe	pthWellDept		
	CP 00900 POD1	CI	P LE	4	3	4	32	25S	37E	671613	3550794* 🥌	736	101		
	CP 00901 POD1	CI	P LE	4	3	4	32	25S	37E	671613	3550794* 🍛	736	96		
Water	CP 00902 POD1	CI	P LE	4	3	4	32	25S	37E	671613	3550794* 💩	736	95		
Analysis	CP 00903 POD1	CF	) LE	4	3	4	32	25S	37E	671613	3550794* 🥘	736	95		
Available	CP 00904 POD1	CF	, LE	4	3	4	32	25S	37E	671613	3550794* 🍛	736	97		
	<u>CP 00905 POD1</u>	CF	' LE	4	3	4	32	25S	37E	671613	3550794*	736	100		
	CP 00905 POD1	CF	LE	4	3	4	32	25S	37E	671613	3550794*	736	100		
0.8 Miles away	CF 01306 FOD1	CP	LE	1	3	3	29	25S	37E	670622	3552502	1255	458	110	348
	CP 01256 POD4	CP	LE	3	2	3	29	25S	37E	670994	3552889	1451	440	210	230
0.9 Miles away	CP 01308 POD1	CP	LE	3	4	4	30	25S	37E	670086	3552295	1506	420	210	230
	CP 01256 POD3	CP	LE	4	1	3	29	25S	37E	670707	3552893	1552	450	190	210
1.0 Miles away	CF 01304 FOD1	CP	LE	4	3	4	31	25S	37E	669863	3550797 🌑	1643	459	285	174
											Average	Depth to Wate		201 fe	
												Minimum Dej		110 fe	
	Record Count: 12	ar a scrap - 7										Maximum Dep	th:	285 fe	et
	UTMNAD83 Radius S	earch (in meter	<u>s):</u>												
	Easting (X): 67135		North	ing (	Y):	3:	5514	83.815		I	ladius: 1650				
	*UIM location was derived	from PLSS - see	Help												
	The data is furnished by the 1 concerning the accuracy, comp	MOSEASC and i	s accepted by	y the r suit	rec abil	ipie itv f	nt w Or ar	ith the	express icular m	ed understan	ding that the OSE	MSC make no v	varranties, exp	ressed or i	mplied,
	1/29/20 11:37 AM							<u>, 1 </u>	Post Post			WATER COLI TO WATER	JMN/AVERA	GE DEP 42	ГН

#### Well: ARNOTT RAMSAY NCT-B #17 Location: Twn 25S Rge 37E Sec 32 Footages: ~1350 FSL 2635 FEL ~ County: Lea

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671362.044 mtrs Northing (Y): 3551086.897 mtrs

#### Water Wells Within 1 Mile Radius \*\* 9 ACTIVE \*\*





XI. Exhibit D5a

#### Well: ARNOTT RAMSAY NCT-B #17 Location: Twn 25S Rge 37E Sec 32 Footages: ~1350 FSL 2635 FEL~ County: Lea

XI. Exhibit D5b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671362.044 mtrs Northing (Y): 3551086.897 mtrs



New Mexico Office of the State Engineer Water Column/Average Depth to Water

	(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fil closed)	ned,	n						7 2=NE 3 st to larg	3=SW 4=SE est) (N	') IAD83 UTM in r	neters)	(In i	èet)	
	POD Number CP 00900 POD1	Code	POD Sub- basin CP	County	64				Tws 255	Rng 37E	<b>X</b> 671613	<b>Y</b> 3550794* 🍛	DistanceDep	thWellDept		Water Column
	CP 00901 POD1		CP	LE				32	255 255	37E	671613	3550794* 🚭	385 385	101 96		
Water	CP 00902 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*	385	90 95		
Analysis	<u>CP 00903 POD1</u>		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🧼	385	95		
Available	CP 00904 POD1		CP	LE	4	3	4 :	32	25S	37E	671613	3550794* 🥪	385	97		
, to an abre	CP 00905 POD1		CP	LE	4	3	4 :	32	25S	37E	671613	3550794* 🌍	385	100		
	<u>CP 00906 POD1</u>		CP	LE	4	3	4 :	32	25S	37E	671613	3550794* 🌍	385	102		
0.9 Miles away	CP 01304 POD1		CP	LE	4	3 .	4 3	31	25S	37E	669863	3550797 🌍	1526	459	285	174
1.0 Miles away	CP 01306 POD1		CP	LE	1	3 :	3 2	29	25S	37E	670622	3552502 🌍	1596	458	110	348
1.1 Miles away	CP 01308 POD1		CP	LE	3	4 4	4 3	30	25S	37E	670086	3552295 🌍	1757	420	210	210

<u>UTMNAD83 Radius Search (in</u>	<u>1 meters):</u>											
Record Count: 10												
										1	Maximum Dep	oth:
											Minimum De	pth:
										Average	Depth to Wate	er:
CP 01302 POD1	CP	LE	3	4	4	30	25S	37E	670086	3552295 🌍	1757	420
	CP	LE	1	3	3	29	25S	37E	670622	3552502 🌍	1596	458
CP 01306 POD1			-				a salar calify				1526	459
CP 01304 POD1	CP	LE	4	3	4	31	255	37E	669863	3550797 🥌	1526	
	CP	LE	4	3	4	32	25S	37E	671613	3550794* 🌍	385	102

Easting (X): 671362 Northing (Y): 3551086.897

Radius: 1800

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/29/20 12:24 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

201 feet 110 feet 285 feet

### Well: ARNOTT RAMSAY NCT-B #18 Location: Twn 25S Rge 37E Sec 32 Footages: ~1115 FNL 2495 FWL~ County: Lea

XI. Exhibit D6a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671299.300 mtrs Northing (Y): 3551942.430 mtrs

#### Water Wells Within 1 Mile Radius \*\* 12 ACTIVE \*\*

Salaritate Great Commission	• •	au		-	ונ		111	1114		era	ge De	pth to	vvat	er	
(A ČLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fill closed)	ined,	ı						W 2=NE est to lar	3=SW 4=SE gest) (h	E) JAD83 UTM in r	neters)	(In feet		
		POD								11			(		
POD Number	Code	Sub- basin	County			Q 5 4		Tws	Rng	x	Y	DistanceDepth	JIL UD d I		ater
CP 01306 POD1		CP	LE	1	3			255	37E	670622	3552502	878	458	110	инн 348
<u>CP 01256 POD4</u>		CP	LE	3	2	3	29	25S	37E	670994	3552889 🌍	995	440	210	230
CP 01256 POD3		CP	LE	4	1	3	29	25S	37E	670707	3552893 🌍	1120	450	190	260
CP 00900 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🍅	1190	101		
CP 00901 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥥	1190	96		
CP 00902 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥌	1190	95		
CP 00903 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥌	1190	95		
CP 00904 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 실	1190	97		
CP 00905 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥘	1190	100		
CP 00906 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 🥌	1190	102		
CP 01308 POD1		CP	LE	3	4	4	30	25S	37E	670086	3552295	1263	420	210	210
CP 00327		CP	LE		3	2	29	25S	37E	671472	3553308* 🥌	1376	422	210	212
											Average	Depth to Water:		186 feet	
												Minimum Depth	:	110 feet	
												- Maximum Depth:		210 feet	
Record Count: 12															
UTMNAD83 Radius S	earch (in 1	meters):													
Easting (X): 67129	9.3		Northi	ng	(Y)	: 3	35519	42.43		1	Radius: 1609.3				
UTM location was derived	from PLS	5 - see H	lelp												45

### Well: ARNOTT RAMSAY NCT-B #18 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>1115 FNL 2495 FWL</u>~ County: Lea

#### XI. Exhibit D6b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671299.300 mtrs Northing (Y): 3551942.430 mtrs



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

	(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)			-				V 2=NE est to lar	3=SW 4=SI	E) VAD83 UTM in	motors)	(1)	feet)	
	POD Number	POD Sub- Code basin (	County	Q	Q	Q				x	Y				Water
0.5 Miles away	CP 01306 POD1	CP	LE			3 2		25S	37E	670622	3552502	DistanceDep 878	458	110	Column 348
	CP.01256 POD4	CP	LE	3	2	3 2	29	25S	37E	670994	3552889	995	440	210	230
	CP 01256 POD3	CP	LE	4	1	3 2	29	25S	37E	670707	3552893 🦲	1120	450	190	260
	CP 00900 POD1	CP	LE	4	3	4 3	32	25S	37E	671613	3550794* 🍛	1190	101		100
Water	CP 00901 POD1	CP	LE	4	3	4 3	32	25S	37E	671613	3550794* 🍛	1190	96		
Analysis	CP 00902 POD1	CP	LE	4	3	43	32	25S	37E	671613	3550794* 🥌	1190	95		
Available	CP 00903 FOD1	CP	LE	4	3	43	2	25S	37E	671613	3550794* 🥘	1190	95		
Aranabic	CF 00204 POD1	CP	LE	4	3 .	43	2	25S	37E	671613	3550794* 🧼	1190	97		
	CP 00905 POD1	CP	LE	4	3 4	43	2	25S	37E	671613	3550794* 🍋	1190	100		
	CF 00906 POD1	CP	LE	4	3 4	43	2	25S	37E	671613	3550794* 🥌	1190	102		
0.8 Miles away	CF 01308 POD1	CP	LE	3	4 4	43	0 3	25S	37E	670086	3552295 🌑	1263	420	210	210
	<u>CP 00387</u>	CP	LE		3 2	2 2	9 :	25S	37E	671472	3553308* 🧼	1376	422	210	212
	CP 00506	CP	LE		2	2 2	9 2	25S	37E	671673	3553509* 🌍	1610	425	200	225
	CP 00774	CP	LE		1	2	9 3	25S	37E	670869	3553495* 🥌	1611	100	60	40
	CP 00509	CP	LE	4	1 2	2 29	9 2	25S	37E	671564	3553609* 🥏	1687	300	275	25
	CP 00487	CP	LE	5	2 1	29	9 2	25S	37E	671063	3553703* 🥌	1776	421	250	171
1.1 Miles away	CP 01304 POD1	CP	LE	4 :	3 4	31	1 2	25S	37E	669863	3550797 🌍	1836	459	285	174
											Averag	e Depth to Water Minimum Dep Maximum Dept	th:	200 fe 60 fe 285 fe	et
	Record Count: 17											•			
	UTMNAD83 Radius S	<u>earch (in meters):</u>													
	Easting (X): 67129	9.3	Northi	ng (	():	355	5194	2.43		I	<b>ladius:</b> 1850				
	*UTM location was derived													46	
	The data is furnished by the 1 concerning the accuracy, comp	NMOSE/ISC and is accordent to the second sec	epted by ability, or	the suita	reci	pien y fo	t wit r any	th the y part	e express icular pu	ed understan	ding that the OS data.	EASC make no w	arranties, exp	ressed or i	mplied,
	1/29/20 10-49 AM											WATER COLU	MAL	OF DED	

WATER COLUMN/AVERAGE DEPTH TO WATER

### Well: ARNOTT RAMSAY NCT-B #19 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>1340 FSL 1330 FEL</u> ~ County: Lea

XI. Exhibit D7a

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671762.649 mtrs Northing (Y): 3551093.095 mtrs

# Water Wells Within 1 Mile Radius \*\* 7 ACTIVE \*\*



(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fil closed)	ned,	n						V 2=NE st to la	E 3=SW 4=SE urgest) (N	i) IAD83 UTM in r	neters)	(In feet)	
POD Number	Code	POD Sub-	County		Q			<b>T</b>	D					Water
CP 00900 POD1	Cour	CP	LE	4		4		25S	37E	X 671613	¥ 3550794* 🍋	DistanceDepth 334	WellDepthWate 101	r Column
CP 00701 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*	334	96	
CP 00902 POD1		CP	LE	4	3	4		25S	37E	671613	3550794* 🥌	334	90 95	
<u>CP 00903 POD1</u>		CP	LE	4	3	4	32	25S	37E	671613	3550794*	334	95 95	
CP 00904 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*	334	97	
CP 00905 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794* 😜	334	100	
CP 00906 POD1		CP	LE	4	3	4	32	25S	37E	671613	3550794*	334	102	
											Averag	e Depth to Water:	101	
											1110105	Minimum Depth:	-	-
												Maximum Depth:	-	-
Record Count: 7		- 80 - 2 -												
UTMNAD83 Radius \$	Search (in :	meters)	:											
Easting (X): 6717	62.649		Northi	ng	<b>(Y)</b>	: 1	35510	193		1	Radius: 1609.3			
*UTM location was derived													47	
The data is furnished by the concerning the accuracy, com	NMOSE/ISC pleteness, re	and is . liability,	accepted by usability. o:	r th r sui	e re tabi	cip: litv	ient v for a	with th	e expre ticular r	ssed understar	uding that the OSI	E/ISC make no warr	anties, expressed	or implied,
1/29/20 11:50 AM								.,		-pose of the	unitic.	WATER COLUM	N/AVERAGE D	FPTH

### Well: ARNOTT RAMSAY NCT-B #19 Location: Twn 25S Rge 37E Sec 32 Footages: ~<u>1340 FSL 1330 FEL</u>~ County: Lea

### XI. Exhibit D7b

Location For Office of the State Engineer: NAD 1983 UTM Zone 13 Easting (X): 671762.649 mtrs Northing (Y): 3551093.095 mtrs



	(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)						₩2=NE: est to larg	3=SW 4=SE gest) (N	) AD83 UTM in r	neters)	(In feet)		
		POD										and the set		
	POD Number	Sub- Code basin (	County		Q 0		Tive	Dur	x	Y	D'			later
	CP 00900 POD1	CP	LE			4 32			671613	3550794*	DistanceDepth 334	1WellDepthWa 101	ter Co	lumn
	CP 00901 FOD1	CP	LE	4	3 4	4 32	25S	37E	671613	3550794* 🥌	334	96		
Water	CP 00902 POD1	CP	LE	4	3 4	1 32	25S	37E	671613	3550794* 🌍	334	95		
Analysis	CP 00903 POD1	CP	LE	4	3 4	4 32	25S	37E	671613	3550794* 🌍	334	95		
Available	<u>CP 00904 POD1</u>	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🌍	334	97		
	<u>CP 00905 POD1</u>	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🌍	334	100		
	CP 00906 POD1	CP	LE	4	3 4	32	25S	37E	671613	3550794* 🌍	334	102		
1.1 Miles away	CP 01306 POD1	CP	LE	1	33	29	25S	37E	670622	3552502 🌍	1812	458 1	10	348
1.2 Miles away	<u>CP 01304 POD1</u>	CP	LE	4	34	31	25S	37E	669863	3550797 🌍	1922	459 2	85	174
	CP 01256 POD4	CP	LE	3	23	29	25S	37E	670994	3552889 🌍	1954	440 2	10	230
1.3 Miles away	CP 01308 FOD1	CP	LE	3	44	30	25S	37E	670086	3552295 🌍	2063	420 2	10	210
										Average	Depth to Water:	2	03 feet	t
											Minimum Depth	c 1	10 feet	t
											Maximum Depth:	2	85 feet	t
	Record Count: 11													
	UTMINAD83 Radius S	earch (in meters):												
	Easting (X): 67176	52.649	Northi	ng (	¥):	35510	193		F	adius: 2075				
	*UTM location was derived		-											
	The data is furnished by the l concerning the accuracy, comp	NMOSE/ISC and is accepted and is accepted and is accepted and in the second sec	cepted by ability, or	the suit	recij abilit	pient v y for a	with th my par	e express ticular pu	ed understan rpose of the	ding that the OSE data.	ASC make no war	ranties, expressed	l or im	plied,
	1/29/20 11:56 AM								-		WATER COLUM	IN/AVERAGE	DEPTI	H
											TO WATER	48		

#### XI. Exhibit E1

#### MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

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1

Company:	Imperati	ve Chemical	Partners					
Well Number: Lease: Location: Date Run: Lab Ref *:	Frying Pan R CP-01304 POD-1 1/27/2020 20-jan-w913			1 5 6	Sample Temp: Date Sampled: Sampled by: imployee #: nalyzed by:	70 1/24/2020 David Gar GR		
		L	Dissolved C	iases				
					Mg/L	Eq. Wt.	MEg/L	
Hydrogen Sulfic					.00	16.00	.00	
Carbon Dioxide	1		NOT ANA	LYZED				
Dissolved Oxyg	ien (02	)	NOT ANA	LYZED				
			Cations					
Calcium	(Ca-	÷+)			145,52	20.10	7.24	
Magnesium	(Mg	++)			69.34	12.20	5.68	
Sodium	(Na-	+)			168.10	23.00	7.31	
Barium	(Ba-				.05	68.70	.00	
Manganese	(Mn				.01	27.50	.00	
Strontium	(Sr+	+)			3.42	47.80	.07	
			Anions					
Hydroxyl	(OH-	·)			.00	17.00	.00	
Carbonate	(CO)	3=)			.00	30.00	.00	
BiCarbonate	(HCC	)3-)			268.84	61.10	4.40	
Sulfate	(504	1=)			270.00	48.80	5.53	
Chloride	(Cl-)				368.40	35.50	10.38	
Total Iron	(Fe)				0.00			
Total Dissolved					0.09 1,293.79	18.60	.00	
Total Hardness	as CaCO3				648.09			
Conductivity MI					2,174			
рН	7.890			Specific Gr	avity 60/60 F.			
				opecine Dr	avicy 00/00 P.		1.001	
CaSO4 Solubility	@ 80 F.	19.19	1Eq/L,	CaSO4 scale	is unlikely			
CaCO3 Scale Index								
70.0	.305	100.0	.655	130.0	1.165			
80.0	.435	110.0	.895	140.0	1.165			
90.0	.655	120.0	.895	150.0	1.395			
				10.0	1.395			

Imperative Chemical Partners

### XI. Exhibit E2

#### MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

13

1

Company:	Imperative	Chemica	l Partnei	<i>'S</i>			
Well Number: Lease: Location: Date Run: Lab Ref #:	Cow Pens CP-01306 POD- <u>1</u> 1/27/2020 20-jan-w91300				Sample Temp: Date Sampled: Sampled by: Employee #: Analyzed by:	70 1/24/202 David Ga GR	
			Dissolved	Gases			
Hudrogoo Cult	4. 0.50				Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfi Carbon Dioxide					.00	16.00	.00
Dissolved Oxyg	()			ALYZED			
	• •						
Calcium	15-111		Cations				
Magnesium	(Ca++) (Mg++)				103.64	20.10	5.16
Sodium	(Na+)				87.40	12.20	7.16
Barium	(Ba++)				134.79	23.00	5.86
Manganese	(Mn+)				.00 .23	68.70 27.50	.00
Strontium	(Sr++)					47.80	.01
					.00	47.80	.00
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3=)				.00	30.00	.00
BiCarbonate Sulfate	(HCO3-)				268.84	61.10	4.40
Chloride	(504=)				300.00	48.80	6.15
Chioride	(CI-)				271.30	35.50	7.64
Total Iron	(Fe)				0.02	18.60	.00
Total Dissolved	Solids				1,166.21	13.00	.00
Total Hardness					617.44		
Conductivity MI	CROMHOS/CM				2,008		
рН	7.710			Specific	Gravity 60/60 F.		1.001
CaSO4 Solubility	@ 80 F.	19.48	MEq/L,	CaSO4 sca	ale is unlikely		
CaCO3 Scale Index							
70.0	022	100.0	.328	130.0	.838		
80.0	.108	110.0	.568	140.0			
90.0	.328	120.0	.568	150.0	1.068		
				10.0	1.068		

Imperative Chemical Partners

50

#### XI. Exhibit E3

#### MITCHELL ANALYTICAL LABORATORY

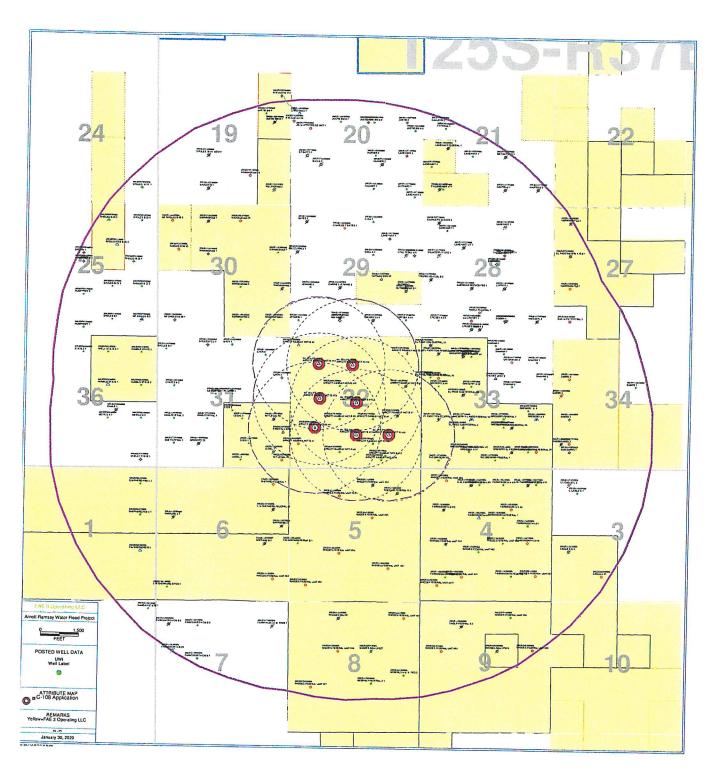
2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	Imperative	Chemica	al Partner	5			
Well Number: Lease: Location: Date Run: Lab Ref #:	Fulfers Shop CP-01308 POD-1 1/27/2020 20-jan-w91302				Sample Temp: Date Sampled: Sampled by: Employee #: Analyzed by:	70 1/24/202 David Gar GR	-
			Dissolved	Gases			
			Philotteu	(Juliu	Mg/L	Eq. Wt.	MEg/L
Hydrogen Sulfide	(				.00	16.00	.00
Carbon Dioxide	(CO2)		NOT AN	ALYZED			
Dissolved Oxyge	n (O2)		NOT AN	ALYZED			
			Cations				
Calcium	(Ca++)	l.			233.64	20.10	11.62
Magnesium	(Mg÷+	)			112.78	12.20	9.24
Sodium	(Na+)				168.66	23.00	7.33
Barium	(Ba++)				.08	68.70	.00
Manganese Strontium	(Mn+)				.99	27.50	.04
Scronchart	(Sr++)				4.97	47.80	.10
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3=)				.00	30.00	.00
BiCarbonate	(HCO3-				219.96	61.10	3.60
Sulfate	(504=)				540.00	48.80	11.07
Chloride	(CI-)				485.53	35.50	13.68
Total Iron	(Fe)				0.01	18.60	.00
Total Dissolved S	olids				1,765.62	10.00	.00
Total Hardness as					1,046.50		
Conductivity MIC	ROMHOS/CM				2,949		
рН	7.610			Specific G	Fravity 60/60 F.		1.001
CaSO4 Solubility @	80 F.	19.7	8MEq/L,	CaSO4 scal	e is unlikely		
CaCO3 Scale Index							
70.0	.144	100.0	.494	130.0	1.004		
80.0	.274	110.0	.734	140.0	1.004		
90.0	.494	120.0	.734	150.0	1.234		
					1.234		

Imperative Chemical Partners

612

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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3.	A. Signature
Print your name and address on the reverse	Agent
so that we can return the card to you.	B Darshad hu (Distanti la China da Chin
Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (Printed Name) C. Date of Delivery
1. Article Addressed to:	
	D. Is delivery address different from item 1?  Yes If YES, enter delivery address below: No
New Mexico State Land Office	
Oil & Gas Division	
Attn: Kenda Montoya	
310 Old Santa Fe Trail	
Santa Fe, NM 87501	
Santa Pe, NW 07501	3. Service Type
	C Adult Signature
	Adult Signature Restricted Delivery     Getified Mail     Delivery     Delivery
9590 9402 5652 9308 3840 27	Certified Mail Restricted Delivery
2. Article Number (Transfer from service label)	Collect on Delivery     Merchandise     Collect on Delivery Restricted Delivery     Signature Confirmation <sup>TH</sup>
,	Insured Mail     Signature Confirmation
2019 5500 0001 5022 02/	1 (over \$560)
	Domestic Return Receipt
and the second se	
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3.	A. Signature
Print your name and address on the reverse	X A Gent
so that we can return the card to you.	Addressee
Attach this card to the back of the mailplece,	B. Received by (Printed Name) C. Date of Delivery
or on the front if space permits.	KELDIESS 23
1. Article Addressed to:	D. Is delivery address different from item 1?  Yes
	If YES, enter delivery address below:
United States Dept. of the Interior	
Bureau of Land Management	
6251 College Blvd., Suite A	
Formington NM 07400	
Farmington, NM 87402	
Farmington, NM 87402	Service Type     Bi Priority Mail Express
Farmington, NM 87402	Adult Signature     Adult Signature Restricted Delivery     Adult Signature Restricted Delivery
	Adult Signature     Adult Signature Restricted Delivery     Adult Signature Restricted Delivery     Certified Mall®
9590 9402 5652 9308 3840 34	Adult Signature     Adult Signature Restricted Delivery     Certified Mail®
9590 9402 5652 9308 3840 34	Adult Signature     Adult Signature Restricted Delivery     Certified Mall®     Certified Mall® Restricted Delivery     Certified Mall® Restricted Delivery     Certified Mall® Restricted Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery Restricted Delivery     Signature Confirmation <sup>™4</sup> Signature Confirmation
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label)	Adult Signature      Adult Signature Restricted Delivery     Certified Mail®
9590 9402 5652 9308 3840 34	Adult Signature      Adult Signature Restricted Delivery     Adult Signature Restricted Delivery     Certified Mail®     Certified Mail®     Collect on Delivery Restricted Delivery     Collect on Delivery Restricted Delivery     Insured Mail Restricted Delivery     Insured Mail Restricted Delivery     Signature Confirmation     Insured Mail Restricted Delivery     Signature Solo
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label)	Adult Signature     Adult Signature     Adult Signature Restricted Delivery     Cortified Mail®     Cortified Mail®     Cortified Mail®     Cortified Mail®     Collect on Delivery     Collect Mail®     Collect on Delivery     Collect On Deli
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96	Adult Signature     Adult Signature     Adult Signature Restricted Delivery     Cortified Mail®     Cortified Mail®     Cortified Mail®     Cortified Mail®     Collect on Delivery     Collect Mail®     Collect on Delivery     Collect On Deli
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION	Adult Signature     Adult Signature Restricted Delivery     Certified Mail®     C
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3.	Adult Signature     Adult Signature Restricted Delivery     Control Mail Restricted Delivery     Collect on Delivery
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you.	Adult Signature     Adult Signature Restricted Delivery     Certified Mail Restricted Delivery     Certified Mail Restricted Delivery     Collect on Delivery Delivery
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION © Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece,	Adult Signature     Adult Signature Restricted Delivery     Construct Mail     Construct Mail     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Deli
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION © Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.	Adult Signature     Adult Signature Restricted Delivery     Certified Mail Restricted Delivery     Certified Mail Restricted Delivery     Collect on Delivery Delivery
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION © Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece,	Adult Signature     Adult Signature Restricted Delivery     Certified Mail Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION © Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.	Adult Signature     Adult Signature Restricted Delivery     Adult Signature Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Signature Confirmation     Insured Mail Restricted Delivery     Signature Confirmation     Signature Confirmation     Signature     COMPLETE THIS SECTION ON DELIVERY     A. Signature     COMPLETE THIS SECTION ON DELIVERY
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to:	Adult Signature     Adult Signature Restricted Delivery     Certified Mail Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION © Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.	Adult Signature     Adult Signature Restricted Delivery     Certified Mail Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to:	Adult Signature     Adult Signature Restricted Delivery     Certified Mail Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION © Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Fulfer Oil & Cattle Company, LLC P.O. Box 1224	Adult Signature     Adult Signature Restricted Delivery     Certified Mail Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery     Collect on Delivery Restricted Delivery     Collect on Delivery
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Fulfer Oil & Cattle Company, LLC	Adult Signature     Adult Signature Restricted Delivery     Collect on De
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Fulfer Oil & Cattle Company, LLC P.O. Box 1224	Adult Signature     Adult Signature Restricted Delivery     Certified Mail®     Certified Mail®     Collect on Delivery
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Fulfer Oil & Cattle Company, LLC P.O. Box 1224	Adult Signature       Adult Signature Restricted Delivery         Adult Signature Restricted Delivery       Registered Mail Mestricted Delivery         Cortified Mail Restricted Delivery       Registered Mail Restricted Delivery         Collect on Delivery Restricted Delivery       Restricted Delivery         Insured Mail Restricted Delivery       Restricted Delivery         Insured Mail Restricted Delivery       Signature Confirmation         Insured Mail Restricted Delivery       Signature Confirmation         Insured Mail Restricted Delivery       Signature Confirmation         Insured Mail Restricted Delivery       Domestic Return Receipt         Signature       Addressee         Signature       Addressee         B. Received by (Printed Name)       C. Date of Delivery         J. Is delivery address different from item 1?       Yes         If YES, enter delivery address below:       No         3. Service Type       Priority Mail Express®         Adult Signature       Restricted Delivery         Adult Signature       Restricted Delivery
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Fulfer Oil & Cattle Company, LLC P.O. Box 1224 Jai, NM 88252	Adult Signature     Adult Signature Restricted Delivery     Certified Mail®     Certified Mail® Restricted Delivery     Collect on Collect     Completered Mail Restricted Delivery     Collect on Delivery     Collect on Collect     Completered Mail Restricted Delivery     Collect on Collect     Completered Mail Restricted Delivery     Collect     Completered Mail Restricted     Collect     Completered Mail Restricted     Collect     Completered Mail Restricted     Collect     Completered Mail Restricted     Collect     Completered     Collect     Completered     Collect     Completered     Collect     Completered     Completered     Collect     Completered     Collect     Completered
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Fulfer Oil & Cattle Company, LLC P.O. Box 1224 Jai, NM 88252 9590 9402 5652 9308 3840 41	Adult Signature Restricted Delivery     Adult Signature Restricted Delivery     Certified Mail® Restricted Delivery     Collect on Delivery Collect on Delivery     Co
9590 9402 5652 9308 3840 34 2. Article Number (Transfer from service label) 7019 2280 0001 2857 96 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Fulfer Oil & Cattle Company, LLC P.O. Box 1224 Jai, NM 88252	Adult Signature Restricted Delivery     Adult Signature Restricted Delivery     Certified Mail® Restricted Delivery     Collect on Delivery Collect on Delivery     Co
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### 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 05, 2020 and ending with the issue dated February 05, 2020.

Publisher

Sworn and subscribed to before me this 5th day of February 2020.

Back

**Business Manager** 



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 Well Name Proposed Injection Zone Township Range Section Lengt Description Latitude Longitude

for each of the injection wells in the table below. The coordinate system for the locations in the table is NAD 27.

FAE II Operating, LLC announces its intent to apply to the New Mexico Oil Conservation Division (NMOCD) for an Authorization to Injec

Well Name	Proposed Injection Zone	Township	Range	Section	Legal Description	Lattitude	Longitude
ARNOTT RAMSAYNCT-B #11	The second second and and and and and and and and and a	255	37E	32	990 FWL 1650 FSL	32,08391	-103 18961
ARNOTT RAMSAY NCT-B #18	Yates-Seven Rivers-Queen	255	37E	32	1115 FNL & 2495 FWL	32.090808	-103 184803
ARNOTT RAMSAYNCT-B#14	Yates-Seven Rivers-Queen	255	37E	32	1060 FNL & 1160 FWL	32 09094	-103 189133
ARNOTT RAMSAY NCT-B #15	inter coron intercio actour	255	37E		2455 FNL & 1195 FWL	CONTRACT DATES AND A DESCRIPTION	A THE CONTRACTOR OF STREET
ARNOTT RAMSAYNCT-B #16	Yates-Seven Rivers-Queen	255	37E	and the state of the	2625 FNL & 2630 FEL	A CONTRACTOR CONTRACTOR	TORNAL STRATES
ARNOTT RAMSAYNCT-B #19	Yates-Seven Rivers-Queen	25S	37E		1340 FSL & 1330 FEL		and the second state of th
ARNOTT RAMSAY NCT-B #17	Yates-Seven Rivers-Queen	255	37E		1350 FSL & 2635 FEL	and the second state of the second state	

Each of the wells in the table are part of the Arnott Ramsay NCT-B (St. of NM 80-0229-0001) lease. Maximum injection pressure and rates are expected to be 700 psia and 750 bwpd per injector. The entirety of the injected water will be used for increasing oil recovery via waterflooding, and NOT commercial saltwater disposal. All of the injection will be confined within the lease and will not affect any offset operators. For questions or comments about this application, contact the operator at FAE II Operating, LLC Attn: Huxley Song 11757 Katy Freeway, Suite 1000 Houston, TX 77079 Phone: 832-708-0057. Objections or requests for hearing must be filed with the Oil Conservation Division at 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

67115951

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MARITZA SANTANA FORTY ACRES ENERGY 11757 KATY FREEWAY SUITE 1000 HOUSTON , TX 77079

30025116750002	30025116750001	30025116750000	30025116730000	30025116720000	30025116710001	30025116710000	30025116700000	30025116690000	30025116680001	30025116680000	30025116670001	30025116670000	30025116640000	30025116600000	30025116590001	30025116590000	30025116570000	30025116230000	30025116210000	30025098390000	30025098380000	30025098370000	30025098360000	30025098350000	30025098340000	30025098330000	30025098310000	30025098300000	30025098290000	30025098190000	30025098170000	30025098160000	30025098150000	30025098120001	30025098120000	30025098110000	30025098100000	30025098090000	30025098080001	30032098060003	30025098060002	30025098060001	30025098060000	30025098040001	30025098040000	30025097950001	30025097950000	30025097790002	30025097790001	30022092290000	UWI/API
LOEB HERMAN L LLC	LOEB HERMAN L LLC	LOEB HERMAN L LLC	TEXAS PACIFIC OIL COMPANY	SUN OIL COMPANY	FULFER OIL & CATTLE COMPANY LLC	FULFER OIL & CATTLE COMPANY LLC	BURLESON LEWIS B INCORPORATED	BETTIS BOYLE & STOVALL	TEXAS PACIFIC OIL COMPANY	TEXAS PACIFIC OIL COMPANY	HARTMAN DOYLE	I DEB HERMAN I	BURLINGTON RESOURCES O&G CO LP	FULFER OIL & CATTLE COMPANY LLC	CHEVRON U S A INCORPORATED	FULFER OIL & CATTLE COMPANY LLC	SKELLY OIL COMPANY	SKELLY OIL COMPANY	SKELLY OIL COMPANY	MARALO INCORPORATED	MARALO INCORPORATED	SOUTHWEST ROYALTIES INCORPORATED	SOUTHWEST ROYALTIES INCORPORATED	MARALO INCORPORATED	MARALO INCORPORATED	MARALO INCORPORATED	FULFER OIL & CATTLE COMPANY LLC	FULFER OIL & CALLE COMPANY LLC	FULFER OIL & CATTLE COMPANY LLC	SOUTHWEST ROYALTIES INCORPORATED	CONOCO INCORPORATED	CONOCO INCORPORATED	CONOCO INCORPORATED	EITIEED OIL & CATTLE COMPANY ILC	OWL SWD OPERATING LLC	OWL SWD OPERATING LLC	OWL SWD OPERATING LLC	FULFER OIL & CATTLE COMPANY LLC	LOEB HERMAN L LLC	LOEB HERMAN L LLC		OPERATOR									
HADFIELD 2	HADFIELD 2	HADFIELD 2	HARNER 1	LANEHART 3	LANEHART 2	LANEHART 2	LEONARD 1	JUSTIS BM B 7	JUSTIS GAS UNIT 2	JUSTIS 2	BATES CT 1	CT BATES 1	JUSTIS BM A 6	CHRISTMAS 1	HARNER 2	HARNER 2	JUSTIS BM A 1	SHOLES B 1	WILLINGHAM 2	CW SHEPHERD B 5	SHEPHERD-FED A 4	SHEPHERD-FED A 3	STATE Z 1	MEXICO A 2	MEXICO A 1	SHELL-STATE A 1	HUMBLE-STATE 3	HUMBLE-STATE 2	HUMBLE-STATE 1	SHOLES B-25 3	HUMPHREY 2	SHOLES B 1	HUMPHREY 1	SHOLES B-25 1	SHOLES B-25 1	SHOLES-FED B-25 5	SHOLES B-25 4	SHOLES B-25 3	SHOLES B-25 2	SHOLES B 2	SHOLES 'B' 2	M F SHOLES B 2	MF SHOLES B 2	BROWN 1	BROWN 1	SHOLES 'A' 1	SHOLES 'A-24' 1	EXXON 1	GB HADFIELD 1		WELL LABEL
3487	3487	3487	3377	8940	3620	3620	3362	3285	3029	3029	3361	2865	3332	3285	3440	3440	2795	2015	2841	2964	2970	3050	3264	2990	3301	3230	2950	3020	3017	3220	3266	3220	3755	2950	2950	3110	3060	3035	3375	3055	2950	2950	2950	3406	3406	3396	3396	3448	3201	1000	티
PLUGGAS	PLUGGAS	PLUGGAS	PLUGOIL	PLUGOIL	GAS	OI	PLUGOIL	O&G	GAS	PLUGOIL	PLUGGAS	PLUGGAS	10	CONWIW	PLUGOIL	PLUGOIL	PIUGGAS	PILICEAS	PLUGGAS	CONWIW	PLUGOIL	OF .	PLUGOIL	PLUGOIL	DHSO	PLUGOIL	PLUGOIL	PLUGOIL	CONWIN	PIUGOII	PLUGOIL	PIUGOII	0	Dic	GAS	CONWIW	PLUGOIL	PLUGDIL	CUNWIW	CONWIW	GAS	PLUGGAS	PLUGOIL	GAS	10	lo	GAS	PLUGGAS	PLUGGAS	BILICON	WELL TYPE
Plugged	Plugged	Plugged			7 RVRS	S-7 RVRS		S-7 RVRS	Plugged	Plugged	Plugged	Disand		SWD: VATES-SEVEN RIVERS		JALMAT: TAN-YATES-7 RVRS	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plupped	Plugged	Philoped	IAI MAT: TAN.YATES.7 RVRS	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	Plugged	Plugged	Plugged	SWD: SEVEN RIVERS	SWD; YATES-SEVEN RIVERS	SWD; YATES-SEVEN RIVERS	SWD; YATES-SEVEN RIVERS		JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	Plugged	Pluged	2	CURRENT ZONE						
3/27/2001	12/1/1986	11/7/1948	12/13/1951	5/18/1957	01/01/1801	11/16/1937	5/6/1936	11/20/1958	1/1/1957	7/28/1937	3/14/1940	3/11/1936	11/1/1954	11/1/1953	1/1/1959	5/6/1959	3/35/1931	C+CT 177 /27	11/22/1949	8/12/1961	3/29/1962	12/1/1960	8/14/1945	10/17/1950	4/1/1945	12/9/1944	6/16/1945	1/7/1945	10/15/1944	7/6/1947	4/14/1945	7/1/1946	7/10/10/2 TCGT/C/T	01/01/1801	10/13/1940	6/22/1957	9/14/1948	8/25/1947	6/20/1070	8/4/2008	10/20/1981	10/8/1961	5/25/1947	01/01/1801	12/26/1957	1/30/1981	10/4/1936	1/23/1976	01/01/1801	Flatann	SPUD DATE
5/4/2001	12/15/1986	2/12/1949	3/23/1952	9/8/1957	01/01/1801	2/7/1938	-	1	2/1/1957	7/28/1937	5/10/1940	9/11/1936	12/25/1954	11/21/1953	10/21/1959	6/24/1959	6/02/1031	+	1	9/8/1961	5/11/1962	1/10/1961	+		6/18/1945	2/14/1945	7/22/1945	+		8/10/1947	6/23/1945	9/07/19/6	TC6T/T7/7		-	7/17/1957			1/26/1941	8/6/2008		10/11/1961	-			-		-	01/01/1801	101000	E COMP DATE
25S	25S	25S	25S	25S	255	255	255	255	255	255	255	25S	25S	25S	25S	255	250	200	220	220	26S	262	250	255	255	25S	255	255	25S	200	250	755	252	255	255	25S	255	25S	255	255	25S	25S	255	255	255	25S	25S	255	250	255	TOWNSHIP
37E	37E	37E	37E	37E	37E	37F	37F	375	375	37F	37F	37E	37E	37E	37E	37F	375	170	375	175	36F	375	325	36F	36E	36E	36F	36F	36E	200	325	300	365	36E	36E	36E	36E	36E	36E	36E	36E	36E	36E	36E	36E	36E	36E	37E	375	277	P RANGE
21	21	21	20	20	20	20	20	3 6	20	00	3	20	20	20	20	7 1	41 AT	5 5	10	-		-1	75	36	36	36	36	36	36	# 0	2 5	2	25	25	25	25	25	25	25	25	25	25	25	25	25	24	24	21	21		SECTION
		660 FEL 660 FSL	1980 FEL 660 FSL	330 FEL 330 FSL	660 FEL 1980 FSL	660 FEI 1980 ESI	SED EEL SED ECL	1000 FEL 1000 FIL	CED EEL 1000 FNL	660 EEI 1980 ENI	660 EWI 1080 ESI	660 FWI 1980 FSI	330 FFI 2310 FNI	330 FWL 1650 FNL	1905 FFI 1980 FSI	1905 FEI 1980 ESI	1980 FWL 660 FSL	DOD FEL 398 FSL	GED EEL EOD EEL	CC0 EEI 1000 EEI	660 EEL 660 ENI	COL EEI 1005 ENII	DOUTLE 1000 FOL	660 FFI 1980 FSI	1980 FFI 1980 FSI	1980 FEI 660 ENI	COOLECTION LINE	FED FEI 1980 ENI	1980 FFI 1980 FNI	1030 FEI 1000 FEI	1020 רבר ססט רצב	1030 FEL CO FEL	2310 FWL 2310 FNL	990 FEL 2310 FNL	990 FEL 2310 FNL	1650 FEL 1650 FNL	660 FEL 660 FNL	660 FFL 1980 FSI	1980 FEL 660 FNL	660 FEL 660 FSL	660 FEL 660 FSL	660 FEL 660 FSL	660 FEL 660 FSL	2310 FWL 1980 FNL	2310 FWI 1980 FNI	660 FFI 660 FSI	660 FF1 660 FS1	1980 FEL 1980 FSL	1980 FEL 1980 FSL		FOOTAGE
32.110140	37 110140	32.110140			32 113810	001011.2C	32 110100	32.11/43U	32.11/430				32 116540	32 118400	37 113820	32 113220	32.110230	32.110060	32.0/0230	000110.20	32.0/41/0	001720.7C	0000000	32 08/850	30 084850	001000 05	2000000	32.088760	32.099300	32.098450	32.093/20	32.094820	32.102090	32.102080	32.102080	32.103900	32.106610	32.100020	32.106620	32.095720	32.095720	32.095720	32.095720	32.103000	101000	32 110240	1102/00	37 113780	32.11378	JURFLAI	NAD27-
32.110140 -103.160870	37 110140 -103 160870	32.110140 -103.160870	-103.182190	-103.176870	-103.177900	32 113910 -103.1//950	-103.1864/0	32.117530 -103.1//880	103.17/880	-103.190/50	103 100750	-103 100750	-103 176870	32.118400 -103.191790				32.110060 -103.195010	32.0/0230 -103.212050	100.212040				-103.2102.		000772'SEDT- 001260 25	010212.201-					-103.219450		-103.213050	-103.213050			-103.216250	-103.216250	-103.211990				32.103000 -103.219460	-103 2101		-103 011020	32.113780 -103.165130		SURFLU	NAD27-
32.110140		-		0 32 109770						-	-	_	_	_	-		-								_					-				50 32.102080	-	-	80 32 106610	_	-	_		-		60 32 103000					_		WG584-
-103.160870				-103 176870						_		_	_								_													80 -103.213050			10 -103 211980					1. ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		00 -103 219460			_	-	_	Terra Con	4- WGS84-

Page 1 of 6

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32.104750 -103.180070 32.104750 -103.180070	1320 FEL 1320 FNL	29	37E	255	01/01/1801	01/01/1801	Plugged	DRY	3308	LANEHART 1	TEXACO INCORPORATED	30025118370001
32.104750 -103.180070 32.104750	1320 FEL 1320 FNL	29	37E	255	6/9/1936	3/15/1936	Plugged	PLUGOIL	3308	LANEHART 1	TEXACO INCORPORATED	30025118370000
32.095740 -103.182200 32.095740 -103,182200	1980 FEL 660 FSL	29	37E	25S	10/24/1929	2/23/1929	Plugged	PLUGGAS	3100	CROSBY A #1	AMERICAN INLAND RESOURCES COMPANY LLC	30025118360000
	810 FWL 1980 FSL	29	37E	25S	1/14/1952	7/14/1951	Plugged	PLUGOIL	3430	JENKINS 4	TEXAS PACIFIC OIL COMPANY	30025118350000
-103.186480 32.096000	1980 FWL 760 FSL	29	37E	255	1/17/1975	1/1/1975	Plugged	PLUGGAS	3443	JENKINS 3	BURLESON LEWIS B INCORPORATED	30025118340002
32.096000 -103.186480 32.096000 -103.186480	1980 FWL 760 FSL	29	37E	255	8/1/1974	5/20/1974	Plugged	PLUGGAS	3443	JENKINS 3	BURLESON LEWIS B INCORPORATED	30025118340001
32.096000	1980 FWL 760 FSL	29	37E	255	5/12/1952	11/20/1951	Plugged	PLUGGAS	3443	JENKINS 3	BURLESON LEWIS B INCORPORATED	30025118340000
32.099360 -103.186490 32.099360	1980 FWL 1980 FSL	29	37E	255	12/10/1951	10/3/1951	Plugged	PLUGGAS	3403	CARRIE LJENKINS 2	TEXAS PACIFIC OIL COMPANY	30025118330000
-103.182200 32.106570	1980 FEL 660 FNL	29	37E	255	6/12/1952	12/14/1951	Plugged	TA	3936	COLL 1	OLSEN-BLOUNT DRILLING COMPANY	30025118320000
-103.191810 32.095720	330 FWL 660 FSL	29	37E	25S	2/17/1975	8/29/1974	Plugged	PLUGOIL	3174	JENKINS 1	BURLESON & HUFF	30025118310001
32.095720	330 FWL 660 FSL	29	37E	25S	12/10/1951	12/5/1950	Plugged	PLUGOIL	3174	JENKINS 1	TEXAS PACIFIC OIL COMPANY	30025118310000
32.100280	1650 FEL 2310 FSL	29	37E	25S	3/31/1952	11/16/1950	SWD; SEVEN RIVERS	SWD	3297	GUTMAN SWD #2	FAE II Operating LLC	30025118300000
-103.177940 32.098970	660 FEL 1830 FSL	29	37E	25S	2/16/1956	10/8/1955	Plugged	PLUGGAS	8628	GUTMAN UNIT D 1	TEXAS PACIFIC OIL COMPANY	30025118290000
32.102940	1980 FEL 1980 FNL	29	37E	25S	3/23/1952	12/14/1951	Plugged	PLUGOIL	3186	COLL A 1	BURLESON LEWIS B INCORPORATED	30025118280000
-103.177940 32.099380	660 FEL 1980 FSL	29	37E	255	3/29/1973	3/25/1973	Plugged	PLUGGAS	3270	GUTMAN 1	BURLESON LEWIS B INCORPORATED	30025118270001
-103.177940 32.099380	660 FEL 1980 FSL	29	37E	255	7/19/1950	6/21/1950	Plugged	PLUGOIL	3270	GUTMAN 1	BURLESON LEWIS B INCORPORATED	30025118270000
32.106590 -103.190780 32.106590	660 FWL 660 FNL	29	37E	25S	1/28/1952	1/11/1952	Plugged	PLUGGAS	2740	BATES 2	BETTIS BOYLE & STOVALL	30025118260000
32.105860 -103.185900 32.105860	2170 FWL 920 FNL	29	37E	25S	9/18/1978	8/14/1978	Plugged	GAS	9134	C T BATES EXXON 1	XL TRANSPORTATION COMPANY	30025118250001
32.105860	2170 FWL 920 FNL	29	37E	255	11/8/1956	5/25/1956	Plugged	DHSO&G	9134	CHARLES T BATES 1	HUMBLE OIL & REFINING COMPANY	30025118250000
-103.177940 32.102930	660 FEL 1980 FNL	29	37E	25S	1/26/1982	12/6/1981	Plugged	DRY	9365	ARCO-SRC 1	ARCO OIL & GAS CORPORATION	30025118240001
-103.177940 32.102930	660 FEL 1980 FNL	29	37E	25S	1/4/1956	6/12/1955	Plugged	PLUGGAS	9365	COLL 1	UNION TEXAS PETROLEUM CORP	30025118240000
32.095730 -103.186480 32.095730	1980 FWL 660 FSL	29	37E	255	1/31/1957	11/29/1956	Plugged	DRY	8576	IMA HAYS 1	AMERADA OLSEN & PEERLES	30025118230000
32.103810 -103.170480 32.103810	1650 FWL 1650 FNL	28	37E	25S	10/11/1976	7/1/1973	Plugged	PLUGGAS	8600	SAUNDERS ESTATE 2	BURLESON LEWIS B INCORPORATED	30025118220001
32.103810 -103.170480 32.103810	1650 FWL 1650 FNL	28	37E	255	10/9/1955	4/28/1955	Plugged	PLUGGAS	8600	LANEHART J T 1	BURLESON LEWIS B INCORPORATED	30025118220000
-103.172610 32.105630	990 FWL 990 FNL	28	37E	25S	7/3/1936	5/3/1936	Plugged	PLUGOIL	3302	LANEHART 1	SINCLAIR OIL CORPORATION	30025118210000
32 100290 -103 174740 32 100290	330 FWI 2310 FSI	28	37E	255	9/2/1936	8/4/1936	Plugged	PIUGGAS	3460	CROSRY RS-FEDI B 2	ATLANTIC RICHEIFI D COMPANY THE	3002511820000
_	2310 FWI 330 FSI	28	37F	255	01/01/1801	01/01/1801	Plugged	PILIGGAS	0002	CROSBY-FEDERAL B 1	SINCLAIR OIL & GAS COMPANY	30025118190001
32,099320 -103,168350 32,099320	1391 LET 1380 EST	80	375	55C CC7	2261/01/01 0001/01/01	2261/8/6 CCCT/C/C	Plugged	PLUGGAS	3000	COPPER 1	ANAERICAN REBUBLIC CORRORATION	30025118180000
32.102920 -103.1/3680 32.102920	1001 FWL 1980 FNL	87	3/6	252	4/20/1950	4/3/10EE	Plugged	PLUGGAS	2463	SAUNDERS STATE I	BURLESON LEWIS B INCORPORATED	300721181/0000
32,101990 -103,166230 32,101990	2310 FEL 2310 FNL	28	37E	255	3/12/1951	8/21/1950	Plugged	DRY	3960	DAWSON 1	OLSEN R	30025118160000
32.102890 -103.165160 32.102890 -103.165160	1980 FEL 1980 FNL	28	37E	255	10/4/1937	7/31/1937	Plugged	GAS	3301	LANEHART 1	BRADLEY EDWIN G	30025118150000
32.095690 -103.165190 32.095690 -103.165190	1980 FEL 660 FSL	28	37E	25S	8/7/1937	7/14/1937	Plugged	OIL	3229	COOK 1 ·	BURLESON LEWIS B INCORPORATED	30025118140000
32.106070 -103.165150 32.106070	1980 FEL 825 FNL	28	37E	25S	8/1/1958	7/5/1958	Plugged	PLUGOIL	3320	LANEHART 1	LOEB HERMAN L LLC	30025118130002
32.106070 -103.165150 32.106070	1980 FEL 825 FNL	28	37E	25S	1/25/1955	1/20/1955	Plugged	PLUGGAS	2930	LANEHART 1	LOEB HERMAN L LLC	30025118130001
32.106070 -103.165150 32.106070	1980 FEL 825 FNL	28	37E	255	11/10/1953	10/14/1953	Plugged	PLUGGAS	2900	LANEHART 1	LOEB HERMAN L LLC	30025118130000
32.102970 -103.165160 32.102970	1980 FEL 1950 FNL	28	37E	255	9/20/1974	8/14/1974	Plugged	PLUGOIL	9170	LANEHART 2	RESERVE OIL INCORPORATED	30025118120001
32 102970 -103 165160 32 102970 -103 165160	1980 FEL 1950 FNI	28	37E	255	4/12/1956	1/5/1956	Plugged	DRY	9170	CIVDE I ANEHART 1	RESERVE OIL INCORPORATED	30025118120001
32.099350 -103.169410 32.099350	1980 FWL 1980 FSL	80	37E	252	2/25/1974	9/5/1974	Plugged	PLUGGAS	10830	AMERICAN REPUCS-FED 1	ATLANTIC RICHFIELD COMPANY THE	30025118110000
32.106510 -103.156620 32.106510	660 FWL 660 FNL	27	37E	255	6/8/1956	12/28/1955	Plugged	PLUGGAS	3542	HARRISON-FED 2	CIMAREX ENERGY CO OF COLORADO	30025118100000
32.099290 -103.156650 32.099290	660 FWL 1980 FSL	27	37E	255	01/01/1801	01/01/1801	JALMAT; TAN-YATES-7 RVRS	GAS	3370	HARRISON-FED 1	FULFER OIL & CATTLE COMPANY LLC	30025118050001
32.099290 -103.156650 32.099290 -103.156650	660 FWL 1980 FSL	27	37E	255	12/13/1955	3/25/1955	JALMAT; TAN-YATES-7 RVRS	GAS	3370	HARRISON-FED 1	FULFER OIL & CATTLE COMPANY LLC	30025118050000
32.095670 -103.160930 32.095670 -103.160930	660 FEL 660 FSL	28	37E	25S	2/6/1969	1/1/1969		PLUGGAS	3284	COOK WN 2	LOEB HERMAN L LLC	30025117580001
32.095670 -103.160930 32.095670	660 FEL 660 FSL	28	37E	25S	9/16/1937	8/15/1937	Plugged	PLUGOIL	3284	WM COOK 2	LOEB HERMAN L LLC ·	30025117580000
32.113790 -103.169380 32.113790	1980 FWL 1980 FSL	21	37E	25S	11/13/1947	11/1/1947	Plugged	PLUGOIL	3565	LANEHART 1	LOEB HERMAN L LLC	30025116860001
32.113790 -103.169380 32.113790	1980 FWL 1980 FSL	21	37E	255	6/21/1936	5/3/1936	Plugged	PLUGOIL	3565	LANEHART 1	LOEB HERMAN L LLC	30025116860000
32.114700 -103.172570 32.114700	990 FWL 2310 FSL	21	37E	255	6/2/1975	5/16/1975	Plugged	PLUGGAS	2928	LANEHART 3	LOEB HERMAN L LLC	30025116840001
32.114700 -103.172570 32.114700	990 FWL 2310 FSL	21	37E	25S	10/1/1937	5/23/1937	Plugged	PLUGOIL	2928	LANEHART-FEDERAL 1	LOEB HERMAN L LLC	30025116840000
32.117450 -103.173620 32.117450	660 FWL 1980 FNL	21	37E	25S	3/31/1938	2/10/1938	Plugged	PLUGOIL	3020	CARLSON-FEDERAL 2	UNION TEXAS PETROLEUM CORPORATION	30025116830001
32.117450 -103.173620 32.117450	660 FWL 1980 FNL	21	37E	255	3/1/1937	11/18/1936	Plugged	PLUGOIL	2950	CARLSON 2	ANDERSON-PRICHARD OIL CORP	30025116830000
-103 173660 32 110170	660 FWL 660 FSI	21	37E	25S	1/15/1970	12/4/1969	Plugged	PLUGGAS	2775	I ANFHART 1	RUBI FSON LEWIS B INCORPORATED	30025116780001
-103.173660 32.110170	660 FWL 660 FSL	21	37E	255	5/21/1951	1/5/1951	Plugged	PLUGGAS	2775	EVA OWENS 1	BURLESON LEWIS B INCORPORATED	30025116780000
32 110170	810 FWL 660 FSL	21	37E	25S	11/10/1977	12/25/1973	LANGLIE MATTIX: 7 RVRS-Q-GRAYBURG	P 9	9029	LANEHART #1Y	FAE II Operating LLC	30025116770001
-103.173180 32.110170	810 FWL 660 FSL	21	37E	25S	3/28/1956	1/14/1956	LANGLIE MATTIX: 7 RVRS-O-GRAYBURG	OIL	9029	IANEHART #1Y	FAF II Operating IIC	30025116770000
32 110150 -103 165140 32 110150 -103 165140	1980 FEL 660 FSI	21	37E	25S	2/23/1947	12/9/1946	Plugged	PLUGGAS	3024	HADFIELD 1	I OFR HERMAN I II C	30025116760000

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	30025118820001	30025118820000	30025118810001	30025118810000	30025118900000	3002511870000	30025118770000	30025118760000	30025118750000	30025118740001	30025118740000	30025118730000	30025118720000	30025118710001	30025118710000	30025118700001	30025118700000	30025118690000	2002511050000	2002511052000	20025118650000	30025118640000	20025118630001	30025118630000	30025118620000	30025118610000	30025118600001	30025118600000	30025118590000	30025118580000	30025118570001	30025118570000	30025118560001	30032118550000	30025118540000	30025118530000	30025118520000	30025118510000	3003511850000	20025118490000	30025118480001	30025118480000	30025118470000	30025118460000	30025118450000	30025118440000	30025118430000	30025118420000	30025118410000	30025118400000	30025118390000	30025118380000
	LANEXCO INCORPORATED	LANEXCO INCORPORATED	CIMAREX ENERGY CO OF COLORADO	CIMAREY ENERGY CO OF COLORADO	EL PASO NATURAL GAS COMPANY	SUN EXPLORATION & PRODUCTION COMPANY	LOEB HERMAN L LLC	BURLESON LEWIS B INCORPORATED	LOEB HERMAN L LLC	FAE II Operating LLC	FAE II Operating LLC	UNIFIED OPERATING LLC	BURLESON LEWIS B INCORPORATED	DC ENERGY LLC	UNION TEXAS PETROLEUM CORP	DC ENERGY LLC	DC ENERGY II C	EI BASO NATIJBAL GAS COMPANY	DC ENERGY LLC	ANDERSON-PRICHARD OIL CORPORATION	DC ENERGY LLC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	CHEVRON U S A INCORPORATED	TIDEWATER OIL COMPANY	PAN AMERICAN	PAN AMERICAN CORPORATION	BURLINGTON RESOURCES O&G CO LP	CIMAREX ENERGY CO OF COLORADO	CIMAREX ENERGY CO OF COLORADO	CIMAREX ENERGY CO OF COLORADO	BURLINGTON RESOURCES D&G CO LP	FULFER OIL & CATTLE COMPANY LLC	FULFER OIL & CATTLE COMPANY LLC	FULFER OIL & CATTLE COMPANY LLC	MARALO INCORPORATED	I OWE BAI PH	IEXAS PACIFIC OIL COMPANY	TEXAS PACIFIC OIL COMPANY	CITIES SERVICE COMPANY	EMPIRE GAS & FUEL	CITIES SERVICE COMPANY	AMERADA DIV AMERADA HESS CORPORATION	BURLINGTON RESOURCES O&G CO LP	BURLINGTON RESOURCES O&G CO LP	MERIDIAN OIL INCORPORATED	BURLINGTON RESOURCES O&G CO LP	KERR-MCGEE CORPORATION	LOEB HERMAN L LLC	CONTINENTAL OIL COMPANY	BURLINGTON RESOURCES O&G CO LP
	EL PASO TOM FEDERAL #9	EL PASO TOM FEDERAL #9	EL PASO TOM EEDERAL #7	GREGORY A #2	GREGORY-FEDERAL #2Y	RO GREGORY-FEDERAL 1	SHAHAN 3	SHAHAN 2	SHAHAN 1	R O GREGORY #3	R O GREGORY #3	GW SHAHAN 2	SHAHAN 1	GREGORY EL PASO FEDERAL #4	GREGORY EL PASO FEDERAL #4	CROSAV DEED 3	GREGORY EEDERAL 2	EL PASU IUM FEUERAL #6	GREGORY A #7	GREGORY-FEDERAL 1	GREGORY C #1	ARNOTT RAMSAY NCT-B #1	ARNOTT RAMSAY NCT-B #3	ARNOTT RAMSAY NCT-B #3	ARNOTT RAMSAY NCT B #2	AB COATES 1	GREGORY A 22	GREGORY 22	LEGAL 4	LEGAL 3	M F I EGAJ #2	M E I EGAI #3	LEGAL 1	DYER 3	DYER 2	DYER 1	SHOLES B 4	COATES A 3	COVINGTON-FEDERAL 2	RING-FEDERAL 2	DYER 2	DYER 2	DYER 1	RL DYER 1	WINNINGHAM 6	WINNINGHAM 4	WINNINGHAM 3	WINNINGHAM 1	WINNINGHAM 1	MF SHOLES B-30 2	MF SHOLES B-30 1	WINNINGHAM 7
		4000					3227			3285	3285	8250	3280	8461	8461	10155	0795	30/5	3299	3200	3237	3400	8797	8797	3225	3332	3320	3320	3365	3336	3350	13250	3254	2977	3171	3251	3105	3230	3140	3140	3285	3285	3252	3335	3191	3206	3114	2889	3505	3054	3125	3305
	PLUGGAS	PLUGGAS	PLUGUIL	PLUGOIL	PLUGGAS	PLUGOIL	ABO&GW	PLUGOIL	PLUGOIL	10	01	GAS	PLUGOIL	PLUGINJ	PLUGINJ	D&G	JNK	PLUGGAS	PLUGOIL	PLUGOIL	PLUGOIL	GAS	TA	TA	PLUGGAS	PLUGOIL	PLUGGAS	PLUGOIL	PLUGOIL	PLUGOIL	PILIGGAS	PLUGGAS	PLUGGAS	GAS	OIL	OIL	PLUGOIL	DRY	PLUGOIL	PLUGOIL	PLUGOIL	PLUGOIL	PLUGOIL	PLUGOIL	PLUGOIL	PLUGOIL	PLUGGAS	PLUGGAS	DRY	GAS	DRY	PLUGOIL
	Plugged	riugeo	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged			JALMAT: TAN-YATES-7 RVRS	CROSBY: DEVONIAN	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	JALMAT; TAN-YATES-7 RVRS	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Pluged	Plusad	Plugged	Plugged	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Plugged	Phiored
crettala	10/ JU/ JU/ 1047	01/01/1801	9/12/1954	11/9/1947	5/6/1956	8/3/1954	9/1/1953	3/20/1952	9/2/1950	12/6/1994	8/16/1960	8/27/1956	4/6/1937	2/1/1022	11/17/1057	4/13/1958	3/28/1956	4/1/1955	8/14/1961	3/8/1953	8/9/1937	4/28/1935	10/29/2001	10/26/1956	8/22/1955	5/5/1935	1/1/1951	4/6/1929	11/13/1951	10/18/1951	1261/81/8	1/1/19/1	12/11/1950	6/26/1954	12/13/1952	9/16/1950	10/9/1945	2/24/1953	1/1/1958	2/9/1952	8/2/1935	4/25/1935	11/1/1934	4/29/1935	4/6/1951	11/19/1950	4/4/1950	6/27/1949	.7bl/11/10	2/6/1950	2/01/02/19/2	5/1/1061
	2/11/1002	01/01/1801	10/1/1954	12/12/1947	7/19/1956	8/21/1954	11/4/1953	4/15/1952	11/10/1950	12/9/1994	10/4/1960	12/17/1956	2/30/1937	9001/01/8	1/12/1050	7/1/1958	5/3/1956	5/19/1955	9/1/1961	4/23/1953	10/31/1937	8/8/1935			10/9/1955	8/16/1935	1/31/1951		-	10/7/1051 586T///E		+			-	10/2/1950			4/30/1958	3/22/1952	-			+			1	9 7/25/1949		3/17/1950	-	-
CL7	205	25S	25S	25S	25S	25S	255	255	755	250	250	250	250	202	255	255	255	255	25S	255	25S	255	25S	25S	25S	25S	255	255	250	252	255	255	255	25S	25S	250	255	25S	25S	25S	25S	255	255	255	25S	25S	25S	255	255	252	750	750
3/6	3/E	37E	37E	37E	37E	37E	37E	375	375	375	376	376	376	3/6	3/6	37E	37E	37E	37E	37E	37E	37E ·	37E	37E	37E	37E	37F	375	376	37E	37E	37E	37E	37E	37E	375	37E	37E	37E	-37E	37E	37E	37E	37E	37E	37F	37F	37F	37E	37E	3/E	774
55	3 33	33	33	33	33	33	33	<u>ມ</u>	200	22	3 22	2 2	33	33	33	33	33	33	33	33	33	32	32	32	33	3 2	11	21. 21	10	31	31	31	31	31	31	2 2	31	31	31	31	31	31	31	31	30	30	3 2	30	30	30	30	3
990 FWL 990 FNF	660 FWL 660 FNL	660 FWL 1980 FSL	660 FWL 1980 FSL	1980 FWL 1980 FNL	1650 FWL 760 FNL	2310 FEL 330 FSL	1650 FEI 1980 ENI	330 EEI 1650 ENI	GED FEI DOD FNI	660 FWL 330 FSL	TODO FEL 330 FNL	1650 FEL 660 FNL	1980 FWL 1980 FSL	1980 FWL 1980 FSL	1980 FEL 1980 FSL	1980 FEL 1980 FSL	1650 FWL 660 FNL	1650 FEL 1650 FSL	1880 FWL 660 FSL	1980 FEL 1650 FSL	1980 FWL 660 FNL	330 FWL 990 FSL	600 FEL 660 FNL	600 FFI 660 FNI	660 FEI 1980 ENI	J310 EWI J310 ENI	1650 EW/L 990 ESL	1650 EWI 000 EEI	101E FEL 330 FSL	660 FEL 1980 FSL	660 FEL 1980 FSL	660 FEL 660 FSL	660 FEL 660 FSL	330 FEL 1650 FNL	980 FEI 735 ENI	330 FWL 510 FNL	660 FWL 1980 FNL	1980 FWL 330 FNL	660 FWL 1980 FSL	660 FWL 1980 FSL	2310 FEL 2310 FSI	2310 FEL 2310 FSI	1650 FEL 990 FSI	2310 FEL 2310 FNI	1000 FEI 660 FSI	1980 FEL 1930 FSL	1980 FWL 660 FNL	1980 FWL 1980 FNL	560 FWL 660 FNL	660 FWL 660 FSL	488 FEL 1922 FNL	
32.092120 -103.173660 32.092120 -103.173660	32.092120 -103.173660 3	-103.173600	-103.173600		-103.170460	-103 166320	-	-103.160930	-103.173560	-103.173560	-103.164130	-103.165200	-103.169340	-103.169340	-	-103.165170	-103.170460		-103 169630	-103 165170	-103 169400	-102 101 710-	32.092120 -103.177730	_	27 N99ENA 103.2U243U	32.082110 -103.204570	-103.204570				32.084820 -103.194940		32.081190 -103.194920	32.089360 -103.193900	075007'50T- 066760'2C				32.084840		32 085730	085730 25.085730			32,095710	32.099200	32.106600	32.102980	32.106610	32.095710	32.103130	
32.092120 -103.173660	32.092120 -103.173660			_	27991'CTT 1028160 CE		_			-	32.091150 -103.164130		32.084850 -103.169340	32.084850 -103.169340				-	0/7C91'E01- 066C90'37	0502C0.2C	060200.20	071760'7C	021760'2C	005880.75	32.08/550	32.082110	32.082110	32.084830	32.080290	32.084820	32.084820	32,081190	-	32 089360	32,092990	-	32,088460	32.092990	-	22 08/8/0	32,085/30	32.082100	32,087550	32.095710	32,095710	32.099200	32,106600	32.102980	32.106610	32.095710	0 32.103130 -103.194470	

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	30025125530000	30025125520000	30025119680000	30025119630001	30025119630000	30025119600001	30025119600000	30025119590001	30025119590000	30025119580000	30025119570001	30025119570000	30025119560000	30025119550000	30025119540001	30025119540000	30025118520000	30015110510000	30025119500000	30025119490002	30025119490001	30025119490000	30025119480000	30025119470000	30025119460000	30025119450000	30025119440000	30025119430000	30025119410000	30025119400000	30025119390000	30025119380001	30025119380000	30005110370001	-		-	30032118330000 B	+	$\vdash$	30025118900000	30025118890001	30025118890000		30075118870000	30025118860000	30025118850000	30025118840001	000000000000000000000000000000000000000
	RING GUSTAV	MERIDIAN OIL INCORPORATED	CIMAREX ENERGY CO DE COLORADO	SOUTHWEST ROYALTIES INCORPORATED	SOUTHWEST ROYALTIES INCORPORATED	EL PASO NATURAL GAS COMPANY	LOWE PETROLEUM COMPANY	EL PASO NATURAL GAS COMPANY	EL PASO NATURAL GAS COMPANY	FAE II Operating LLC	EL PASO NATURAL GAS COMPANY	TEXACO INCORPORATED	TEXACO INCORPORATED	FAE-II Operating LLC	PAN AMERICAN CORPORATION	PAN AMERICAN CORPORATION	CIMAREX ENERGY CO OF COLORADO	CIMAREX ENERGY CO OF COLORADO	CIMAREX ENERGY CO OF COLORADO	CIMAREX ENERGY CO OF COLORADO	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	CIMAREX ENERGY CO OF COLORADO	CIMAREX ENERGY CO OF COLOBADO	CIMAREX ENERGY CO OF COLORADO	JAL OIL COMPANY	CIMAREX ENERGY CO OF COLORADO	MERIDIAN OIL PRODUCTION INCORPORATED	MERIDIAN OIL INCORPORATED	FAE II Operating LLC	UNION TEXAS PETROLEUM CORPORATION	REMUDA OPERATING COMPANY INCORPORATED	APCO OIL CORPORATION	ENFIELD ROBERT N	HARTMAN DOYLE	HARTMAN DOYLE	FAE II Operating LLC	FAE II Operating LLC	ANDERSON-PRICHARD OIL CORP	MERIDIAN OIL INCORPORATED	DC ENERGY LLC							
	RING-FEDERAL 1	WINNINGHAM 5	CAGIE-GENERALA 1	FARNSWORTH-FEDERAL 2	FARNSWORTH B 29	SHEPARD-FEDERAL B 2	SHEPARD B 2	SHEPARD-FEDERAL A 2	SHEPARD A 2	SHEPARD-FEDERAL 1	SHEPHERD #1	SHEPHERD #1	RHODES FEDERAL UNIT #51	SHEPARD-FEDERAL B 3	CHS W/ SHEPPPDN/15 B 1	CW SHEBABD DEBAILT D 1	RHODES FEDERAL UNIT #41	C.M. FARNSWORTH C #7	C.M. FARNSWORTH C #6	<b>RHODES FEDERAL UNIT 43</b>	FARNSWORTH '4' 5	<b>RHODES FEDERAL UNIT #43</b>	<b>RHODES FEDERAL UNIT #42</b>	FARNSWORTH 4 #10	FARNSWORTH 4 #3	FARNSWORTH 4 #2	FARNSW/ORTH 4 #9	FARNSWORTH 4 #7	FARNSWORTH 4 #1	FARNSWORTH-FEDERAL 6	FARNSWORTH-FEDERAL 13	FARNSWORTH 4 #12	EABNISWOBTH 1 #13	RHODES FEDERAL UNIT #45	FARNSWORTH-FEDERAL 1	CC CAGLE C 1		CAGLE CC C 3	CC CAGLE C 3	DABBS 1	SAM DABBS 1	DABBS 2	DABBS 1	DABBS 4	DABBS 4	DABBS 1	GREGORY-FEDERAL A 6	GREGORY A 5	UNLOUNING
		3180 5		B	100	3243 P			1				3700				3160	112	8670	3312	3312			3280	3229	1775	3248	3248	3210			3290	3289	3289	3296	3526	8824	8824	8824·	3350	8852	3300	2852	9273	9273	9004	3257	3266	1000
	PLUGOIL	PLUGOR	OIL	PLUGOIL	PLUGGAS	PLUGGAS	PLUGOIL	PLUGGAS	PLUGOIL	DHSG	PLUGGAS	PLUGOIL	GAS	PLUGOIL	PLUGUIL	GAS	GAS	PLUGGAS	PLUGGAS	PLUGGAS	PAOW	PLUGOIL	PLUGOIL	GAS		PLUGUL	PLUGOIL	INJECT	PLUGOIL	DHSO	PLUGOIL	PLUGGAS	GAS	GAS	PLUGOIL	O&G	GAS	DRY	PLUGGAS	PLUGOIL	DRY	GAS GAS	PLUGGAS	GAS	GAS	DRY	PLUGOIL	PLUGINJ	- LOOINS
	Plugged		'EN RIVERS						Plugged 1		A CONTRACT OF A	CIA VIA CUO				EN RIVERS		Plugged			Plugged	の山口になったいでのない	A distribution	-O-GRAVRIIRG	LANGUE MATTIX: 7 RVRS-O-GRAVBURG		Plugged	Injection		Plugged	Plugged	Plugged	RHODES; YATES-SEVEN RIVERS		Plugged	JALMAT: TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	Plugged	Plugged	Plumod	Plugged	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	Plugged	Plugged	Plugged	
1 1 1 1 1 1	1/23/1952	6/21/1938	1/23/1934	01/01/1801	11/1/1937	01/01/1801	9/28/1934	01/01/1801	10/17/1936	1/21/1952	0/2/1025	8/06/1008	1 CET /4L/T	1/2/1934	2/14/1933	11/14/1939	9/3/1939	12/21/1958	10/14/1958	3/5/1998	10/20/1982	3/18/1958	1/17/1958	130/192/F	1/1/1055	10/7/1959	9/7/1959	8/10/1959	10/19/1954	5/19/1958	1/17/1962	3/17/1990	2/5/1991	5/29/1961	6/6/1958	5/5/1956	2/1/1998	1/11/1965	8/11/1961	12/9/1957	2/29/1962	2/13/1952	11/29/1948	1/20/1997	6/5/1957	6/17/1957	2/21/1953	4/21/2003	14111
	7/10/1953	7/21/1938	8/31/1934	01/01/1801	11/28/1937	01/01/1801	11/30/1934	101/10/10	2CCT /12/H	7/21/1052 71/22/1222	576T /6T /0	/10/1010	/ 56T /a/h	2/26/1934	5/23/1933	12/19/1939	10/13/1939	2/26/1959	12/16/1958	8/17/1998	11/11/1982	4/10/1958	2/13/1958	5/6/1000	12/12/1954	11/6/1959	10/11/1959	9/7/1959		2/27/1959	2/12/1962	6/24/1990	2/11/1991	6/26/1961	7/3/1958	5/31/1956	3/11/1998	1/16/1965	1/19/1962	4/15/1958	7/18/102	1			$\left  \right $			4/29/2003	
200	252	265	26S	26S	26S	265	590	220	220	292	200	265	265	265	265	265	26S	26S	265	265	265	265	292	202	265	265	26S	26S	265	26S	262	265	26S	26S	265	265	26S	26S	26S	252	255	255	255	255	255	255	255	255	
2,5	3/E	37E	37E	37E	37E	37E	375	37E	3/E	3/E	3/6	3/E	37E	37E	37E	37E	37E	37E	37E	37F	375	375	375	3/5	37E	37E	37E	37E	37E	37E	37F	37E	37E	37E	37E	37E	37E	37E	37E	37F	37E	37E	37E	37E	37E	37E	37E	375	376
TC	30	9	8	7	7	6	סת	a		5	σ	5	G	5	ы	4	4	4	4	•	4	4	4 4	4	4	4	4	4	4	4	+ 4	4	4	4	4	ω ω	з	ω	ω	34	34	34	34	34	34	34	33 55	22 22	-
TOON LANT TARA LOT	1980 FEL 1980 FSL	1650 FWL 990 FNL	1980 FEL 1980 FSL	660 FWL 1980 FNL	660 FWL 1980 FNL	990 FEL 2310 FSI	000 EEI 7310 EEI	660 FWL 1980 FNL	660 FEL 660 FNL	330 FEL 2310 FNL	330 FEL 2310 FNL	1320 FEL 1320 FSL	990 FEL 990 FNL	330 FWL 2310 FSL	330 FWL 2310 FSL	1650 FEL 1650 FNL	1650 FWL 990 FSL	1980 FWL 660 FNL	990 FFI 660 ENI	990 EWI 3310 ESI	000 EW/ 2310 FSL	2010 FWI 1910 FFI	990 FEL 2310 FSL	990 FEL 2310 FNL	660 FEL 660 FNL	2310 FWL 660 FNL	1980 FEL 2310 FSL	2310 FWL 1980 FNL	1980 FEL 660 FNL	990 FWL 990 FSL	1650 EEL 000 EEL	890 FWL 1650 FNL	990 FWL 480 FNL	990 FWL 480 FNL	1980 FEL 1980 FNL	990 FWL 990 FNL	660 FWL 660 FNL	660 FWL 660 FNL	660 FWL 660 FNL	1980 EEL 1980 ENI	330 FWL 2310 FNL	330 FWL 2310 FNL	330 FWL 990 FSL	660 FWL 1650 FNL	660 FWL 1650 FNL	660 FWL 1980 FSL	990 FE1 660 ESI	660 FEL 1980 FSL	
32.084830 -103.203500 32.084830 -103.203500	32.099340 -103.199280 32.099340		-103.182140		32.059340 -103.196000 32.0/1110	-103.196000	-103.207790		32.077560 -103.194910 32.077560	-103.193860		_	-	-103.191740	-103.191740	-103.164080	-103 170460	32.077600 -103 169310 32.07	-103.1/2560	-103.1/2560	-103.172560	-103.168310	-103.161950	-103.161950	-103.160890		-103,165150	32.073970 -103.168270	32 077610 -103 165150 32.0	_	-103,172850	-103.172850	-103.172500	-103.172500	32 073980 -103 165150 32.0	-103.155560	-103.156630	-103.156630	32.077630 -103.1461/0	32.081250 -103.156640	32.087490 -103.157720	32.087490 -103.157720	32.082170 -103.157710	32.089310 -103.156660	32,089310 -103,156660	32.084880 -103.156650	-103.160910	32.084880 -103.160910	
4830 -103.203500	9340 -103.199280	-		008/07-103-207800				73960 -103.207790	77560 -103.194910		73020 -103.193860	32.068360 -103.180040	32.076660 -103.178900				067/00 -103.170/60		_					32.073090 -103.161950				32.073970 -103.168270		_	_			32 078080 -103 172500				32 077630 -103 156630					32.082170 -103.157710	32.089310 -103 156660					۲

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FAE II Operating LLC 2 Mile Radius

00006927262006	300252/1/0000	30025271430000	0000534430000	100025269620000	30025269620000	30025269190000	30025269180000	30025267570001	30025267570000	30025267250000	30025267240000	30025267080000	30025266310000	30025265950000	30025265630000	30025263350001	000052963350000	300757529100000	30025262790001	30025262790000	30025262780000	30025261910000	30025261550000	30025261060001	30025261060000	30025261050000	30025260770001	30025260770000	30025259850000	30025245360000	30025245250000	30025245210000	30025244640000	30025244410000	30025242870000	30025239130000	30025238910001	2002523862000	30025220330000	30025217610000	30025213010000	30025213000000	30025212990001	30025212990000	30025212790000	30025205810000	30025204910000	30025202540000	30025200110001	30025200110000	30025125770000
AMERICAN INLAND RESOURCES COMPANY LLC	AMERICAN INLAND RESOURCES COMPANY LLC	LOEB HERMAN L	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	LANEXCO INCORPORATED	LANEXCO INCORPORATED	FAE II Operating LLC	FAE II Operating LLC	LANEXCO INCORPORATED	MERIDIAN OIL INCORPORATED	LANEXCO INCORPORATED	LOEB HERMAN L LLC	MERIDIAN OIL INCORPORATED	FULFER OIL & CATTLE COMPANY LLC	LOEB HERMAN LILC	BORLESON LEWIS B INCORPORATED	FAE II Operating LLC	HARTMAN DOYLE	HARTMAN DOYLE	FAE II Operating LLC	BURLESON & HUFF	BURLESON LEWIS B INCORPORATED	FAE II Operating LLC	FAE II Operating LLC	HARTMAN DOYLE	BURLESON LEWIS B INCORPORATED	BURLESON LEWIS B INCORPORATED		FAE II Operating LLC		CIMAREX ENERGY CO OF COLORADO	. GREATHOUSE & LOVELADY	FAE II Operating LLC	DC ENERGY LLC	CHEVRON U S A INCORPORATED		LOEB HERMAN L LLC	WOLFSON OIL COMPANY	HANSON ERNEST A	PAN AMERICAN CORPORATION	FULFER OIL & CATTLE COMPANY LLC	SOUTHWEST ROYALTIES INCORPORATED	SOUTHWEST ROYALTIES INCORPORATED	BETTIS BOYLE & STOVALL	BETTIS BOYLE & STOVALL	DC ENERGY II C	INION TEYAS BETEOI EINA COBBODATION	FAE II Operating LLC	FAE II Operating LLC	TENNECO OIL COMPANY
CROSBY A #4	CROSBY A #3	SHOLES 'B-19' COM 4	ARNOTT RAMSAY NCT-B #11	ARNOTT RAMSAY NCT-B #10	ARNOTT RAMSAY NCT-B #10	EL PASO TOM FEDERAL 4	EL PASO TOM FEDERAL #3	ARNOTT RAMSAY NCT-B #9	ARNOTT RAMSAY NCT-B #9	EL PASO TOM FEDERAL #2	EL PASO BEVERLY FED 1	EL PASO TOM FEDERAL #1	SHAHAN 1	BATES BB&S 1	SANTA FE FEDERAL 1	CEDEBAL 1	HORNER 3	ARNOTT RAMSAY NCT-B #8	ARNOTT RAMSAY NCT-B #7	ARNOTT RAMSAY NCT-B #7	ARNOTT RAMSAY NCT-B #6	COLL A 2	LANEHART 4	ARNOTT RAMSAY NCT-B #4	ARNOTT RAMSAY NCT-B #4	ARNOTT RAMSAY NCT-R #5	SALINDERS ESTATE 3	SAUNDERS ESTATE 3	Chochy Crep #1	BHODES FEDERAL UNIT #94	RHODES GSU LPG14	RHODES GSU LPG22	US-CROSBY 1	RHODES FEDERAL UNIT #81	CROSBY DEEP 2	C W SHEPHARD B-FED 6		COOK 1	SKELLY-STATE 1	RAMSAY-STATE 1	FARNSWORTH CM B 8	FARNSWORTH CM B 7	FARNSWORTH B FEDERA 6	FARNISWORTH CM B 6	IUSTIS BM 9	IUSTIS BM B 8	GREGORY EL PASO FEDERAL #1	RHODES FEDERAL UNIT #47	RHODES FEDERAL UNIT #47	<b>RHODES FEDERAL UNIT #47</b>	JUSTIS BM B 1
3419	24	13500 F	3473 10	3400	3400	3300	3300	3450							3000			3630	3600	3600	3600	3330	3530	3600	3600	3500	2000	3400	OTTC	3170	3110	3270	8160	3110	10445	3000	10946	8240	3055	3305	3058	3304	0107	7070	3400	2000	5/68	3290	3290	3290	365
PLUGOIL	PLUGOIL	PLUGGAS	C-INJ / TA	OIL	OIL	TA	PLUGGAS	OL	OL	PLUGOIL	PLUGGAS	PLUGGAS	PLUGOII	PILIGGAS	PLUGUL	PLUGOIL	PLUGGAS	OIL	PLUGGAS	PLUGOIL	10	DRY	PLUGOIL	SWD	SWD	PILIGOI	FLUGDAS	PLUGOIL	CAD	GAS	PLUGGAS	PLUGGAS	GAS	GAS	SWD	PIUGOII	PLUGGAS	PLUGGAS	DRY	PLUGOIL	PLUGOIL	OIL	PILIGGAS		PILIGOIL	PLUGOAD	DRY	GAS	GAS	GAS	JNK
Plugged	Plugged	Plugged	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	Plugged	5.00		LANGLIE MATTIX: 7 RVRS-O-GRAYBURG	Plugged	Plugged	Plugged	Plingood	Diversed	Plugged	Plugged	Plugged	JALMAT; TAN-YATES-7 RVRS	Plugged	200	LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG	Plugged		SWD: SEVEN RIVERS-OUFFN		Plugged	riugged	Plugged	RHUUES; YAIES-SEVEN RIVERS	VATES-SEVE	Plugged	Plugged		-	SWD: FUSSELMAN	Plugged	Plugged	Plugged	Plugged	Plugged		SCARBOROUGH: YATES-SEVEN RIVERS	Pluzzad	Dagguis	Diversed	Flugged	Plugged	RHODES; YATES-SEVEN RIVERS	RHODES; YATES-SEVEN RIVERS	RHODES; YATES-SEVEN RIVERS	Plugged
6/17/1981	12/8/1980	1/13/1981	11/21/1981	7/10/1990	9/5/1980	9/10/1980	9/2/1980	7/10/2001	4/22/1980	3/29/1980	0/7/1020	3/21/1980	C/CT /02 /2T	17/21/20	1/6/2000	7/6/1979	6/27/1979	4/26/1979	8/15/1981	4/14/1979	4/6/1979	5/2/1979	11/30/1978	8/18/1982	8/6T/07/7T	2661/11/6	8/61/05/6	8/4/1978	10/12/1973	10/8/1973	10/5/1973	9/29/1973	6/22/1973	7/23/1973	11/15/1972	11/21/2001	9/29/1971	8/22/1970	3/5/1967	4/21/1966	9/27/1965	9/2/1965	596T/67/9	500/1005	2/8/1964	8/20/1963	10/31/1963	3/8/2011	6/24/1990	1/5/1963	3/4/1931
8/17/1981	3/18/1981	2/12/1984	1/20/1982	8/10/1990	10/10/1980	10/28/1980	10/23/1980	9/2/2001	5/28/1980	0861/UE/L	5/7/1000	086T/T/4		-	-	8/2/1979	10/10/1979	7/19/1979	8/23/1981	7/11/1979	6/8/1979		1/30/1979	-	1	+		-	3 11/10/1973	1	11/4/1973		-		2/121/12/2 C		+		+	-	+	8/26/1965	+	+	+		+	4/8/2011			3/23/1931
255	255	25S	25S	255	255	255	255	255	250	250	200	722	255	255	25S	25S	25S	25S	25S	255	255	250	250	250	255	255	255	25S	265	265	26S	26S	25S	590	262	255	255	25S	255	265	596	265	265	255	255	255	255	265	265	26S	255
37E	37E	37E	37E	37E	37E	37E	37E	375	275	3/6	3/6	3/6	3/E	37E	37E	37E	37E	37E	37E	37E	375	370	276	375	37E	37E	37E	37E	37E	37E	37E	37E	37E	375	375	37E	37E	37E	36E	345	375	37E	37E	37E	37E	37E	37E	37E	37E	37E	375
29	28	19	32	32	32	33	33	20	33	17	33	33	29	27	21	21	20	32	32	<u>ب</u> ا 2	2 6	1	76	32	32	28	28	33	9	9	9	8	28	8 33	3 0	28	28	28	36	1,	7	7	7	19	20	33	33	4	4	4	19
660 FEL 660 FSL	660 FWL 660 FSL	1980 FWL 1980 FSL	990 FWL 1650 FSL	1980 FWL 1980 FNL	1980 FWL 1980 FNL	1650 FWI 1650 FSI	1650 EVVI 2310 EVI	1990 FWL 1980 FSL	1000 FWL 1630 FNL	660 FWL 1980 FNL	330 FWL 330 FNL	2310 FEL 330 FNL	280 FWL 1870 FNL	660 FWL 660 FSL	890 FWL 2210 FNL	890 FWL 2210 FNL	1650 FEL 1650 FSL	1980 FWL 660 FSL	990 FEL 2130 FSI	1200 FEI 2130 ESI	1000 EEI 1000 EEI	330 FWL 1350 FSL	330 FWL 330 FNL	330 FWL 330 FNL	1650 FEL 330 FSL	660 FWL 660 FNL	660 FWL 660 FNL	1980 FWL 785 FNL	760 FEL 1980 FNL	850 FWL 1980 FNL	2180 FEL 1980 FNL	1980 FEL 1980 FNL	1980 FWI 660 FNL	2310 FEL 1650 FNL	420 FWL 540 FSL	1980 FWL 330 FSL	1980 FWL 330 FSL	1905 FEL 660 FSL	660 FEL 330 FSI	330 EEL 230 ENI	1657 CMIL COD CMIL	497 FWL 920 FNL	497 FWL 920 FNL	990 FEL 1650 FNL	1980 FEL 1980 FNL	1650 FEL 660 FSL	1880 FWL 760 FSL	660 FEL 990 FSL	660 FEL 990 FSL	660 FEL 990 FSI	CAE EEI 1000 ENI
-103.177940	32.095740 -103 173680	32.113860 -103.189610	-102 100010	-103.186440	-103.170400	32 083940 -103.1/0430		32.084820 -103.186420		32.102880 -103.156640	32.093030 -103.174730	32.092980 -103.166260	32.103270 -103.191990	32.095660 -103.156670	32.116810 -103.172880	32.116810 -103.172880		32.081190 -103 186390	37 U85740 -103.178930			32.112620 -103.174710		32.092990 -103.191800	32.080290 -103.181020	32.106540 -103.173680	32.106540 -103.173680		32.059410 -103.161200		32.059370 -103.165780	32.059290 -103 182160	32.062910 -103.177930	_	32.066270			32.095690 -103.164950	02000000000000000000000000000000000000	32.062050	32.058430	32.062250	32.062250 -103.208320	32.118390 -103.196060		32.081240 -103.164100	32.081500	32.067580 -103.160880	32.067580 -103.160880	32.11/480	
32.095750	33 005740	32.083910		32 088470						32.102880	32.093030	32,092980	32.103270				_	0 32 081100				0 32.112620	0 32.092990	0 32.092990	-			-	-	_	10 32 059370							50 32 095690	-						_		_	80 32.067580	_		
-103.177940			-102.100440					-	-103,174700	-103,156640	-103.174730	-103.166260		_			0-103 181110					0 -103.174710		0 -103,191800						10 -103.173030					70 -103.208570			90 -103 164950		-								580 -103.160880		-	

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G. G. M. C. M.			100100	27 082084	1350 FSI & 2635 FFI	32	37E	255			Foranon-Infernon	100 1140				
Observed         Observed         State	03.180047	32.083079 -	9 -103.180047	32.083075	1340 FSL & 1330 FEL	32	376	255			1	IDC-INI		ABNOTT BAMSAY NIT-B #17	FAE II Operating LLC	SU_25S-37E_32JJ
Opened         Opened<	103.184285	32.086664 -	4 -103.184285	32.086664	2625 FNL & 2630 FEL	32	3/5	667			2	IOC-INI		ARNOTT RAMSAY NCT-B #19	FAE II Operating LLC	SU_25S-37E_32II
Chronic biology         Constraints	103.188987	32.087118 -	8 -103.188987	32.08711	2455 FINL & 1195 FWI	20	346	200			Ð	LOC-INJ		ARNOTT RAMSAY NCT-B #16	FAE II Operating LLC	SU_25S-37E_32GG
Control         Control <t< td=""><td>103.189133</td><td>32.090940 -</td><td>· · · · · · · · · · · · · · · · · · ·</td><td>22.090940</td><td>TOOLINE &amp; TTOLLAND</td><td>2</td><td>376</td><td>255</td><td></td><td></td><td>ē</td><td>LOC-INJ</td><td></td><td>S</td><td>FAE II Operating LLC</td><td>SU 255-37E 32FF</td></t<>	103.189133	32.090940 -	· · · · · · · · · · · · · · · · · · ·	22.090940	TOOLINE & TTOLLAND	2	376	255			ē	LOC-INJ		S	FAE II Operating LLC	SU 255-37E 32FF
Control         Non-         Control         Non-	103.184803	32.090808	0 103 100100	2200000	1060 ENI & 1160 EWI	33	37E	25S			tion-Inject	LOC-INJ		ARNOTT RAMSAY NCT-B #14	FAE II Operating LLC	51 356 376 3CL
Control         Control <t< td=""><td>UC/ 261 'CUT.</td><td>72,000000</td><td></td><td>BUBUBU CE</td><td>1115 FNI &amp; 2495 FWI</td><td>32</td><td>37E</td><td>25S</td><td></td><td></td><td>Location-Injection</td><td>LOC-INJ</td><td></td><td>ARNOTT RAMSAY NCT-B #18</td><td>FAE II Operating LLC</td><td></td></t<>	UC/ 261 'CUT.	72,000000		BUBUBU CE	1115 FNI & 2495 FWI	32	37E	25S			Location-Injection	LOC-INJ		ARNOTT RAMSAY NCT-B #18	FAE II Operating LLC	
Control         Contro         Contro         Contro         C	103 103 200	22 002200		32.083360	287 FEL 1450 FSL	31	37E	25S				QWS		KIMBERLY SWD 1		
GROMM WARE         MAD         MUCO         Mage         Same and	102 120000			32.055370	900 FWL 1850 FSL	8	37E	26S	3/16/2006	1/9/2006		CAD	1160	MINDES FEDERAL UNIT #87	OWI SWD OBEDATING UP	3002543360000
Non-control	103 190680			32.06656	660 FWL 660 FSL	ч	37E	26S	3/28/2006	1/22/2006	KHUUES; YALES-SEVEN KIVERS	GAD		PHONES EEDEBAL UNIT #30	FAE II Operating IIC	30025376020000
Construction         Number of the state of the sta	103 164070	32.063010 -	10 -103.164070	32.06301	1650 FEL 660 FNL	9	37E	265	1/2//2006	C007/T7/TT	NINDES, TATES SEVEN NIVERS		2000	BHODES EEDEBAL LINIT #56	FAE II Operating II C	30025375530000
CHORNA VE         DEMARC         DEMARC <thdemarc< th=""> <thdemarc< th=""> <thdemarc<< td=""><td>103.207220</td><td>32.103460</td><td>50 -103.207220</td><td>32.10346</td><td>815 FWL 1806 FNL</td><td>30</td><td>3/6</td><td>202</td><td>T007/67/4</td><td>TOD7 /C/T</td><td>BHODES: VATES SEVEN BN/EBS</td><td>0</td><td>7755</td><td>RHODES FEDERAL UNIT #98</td><td>FAE II Operating LLC</td><td>30025375140000</td></thdemarc<<></thdemarc<></thdemarc<>	103.207220	32.103460	50 -103.207220	32.10346	815 FWL 1806 FNL	30	3/6	202	T007/67/4	TOD7 /C/T	BHODES: VATES SEVEN BN/EBS	0	7755	RHODES FEDERAL UNIT #98	FAE II Operating LLC	30025375140000
Control         Control <t< td=""><td>103.182120</td><td>32.073940</td><td>40 -103.182120</td><td>32.07394</td><td>1980 FEL 1980 FNL</td><td>3 0</td><td>3/6</td><td>202</td><td>1002/02/</td><td>1/5/2001</td><td></td><td>GAS</td><td>3000</td><td>SHOLES B 30 #3</td><td>FAE II Operating LLC</td><td>30025352230000</td></t<>	103.182120	32.073940	40 -103.182120	32.07394	1980 FEL 1980 FNL	3 0	3/6	202	1002/02/	1/5/2001		GAS	3000	SHOLES B 30 #3	FAE II Operating LLC	30025352230000
GROMM VAM         M30         PUNOL         PRIME         Alant         PLUSOL         PRIME         Alant         PLUSOL         PRIME         Alant         PLUSOL         LUSOL         PLUSOL	103,152360	32.067570	10 -103.152360	10/00.70	1000 FFI 1000 FM	n (	375	296	7/29/2001	6/29/2001		GAS	3831	<b>RHODES FEDERAL UNIT #55</b>	FAE II Operating LLC	30025344530000
CROMEN AM         M35         PUCOL         PRUGAC         ALAPING         Schult         Schult<	-103.1/3660	32.066560	70 103.1/3000	37 06767	1980 EWI 990 ESI	w	37E	26S	1/17/2000	11/1/1999	JALMAT; TAN-YATES-7 RVRS	GAS	3498	CAGLE C #5	FAE II Operating LLC	000001111110000
GROBEN MA         910         Muldial         Planet	102.1/1020	12.01040	50 -103 173660	32 06626	660 FWL 660 FSI	4	37E	26S	8/4/1998	6/12/1998		GAS	3057	RHUUES FEDERAL UNII #415		2003527750000
Openet Test         Openet Test         Statistication         Statistication         Statistication         Statistication         Statistication         Statistication           Detertereri         1000126         3 406         3 405 <t< td=""><td>102 177000</td><td>37 056600</td><td>40 -103 177890</td><td>32.05664</td><td>660 FEL 2310 FSL</td><td>8</td><td>37E</td><td>26S</td><td>1/21/1999</td><td>2/4/1998</td><td></td><td>OIF</td><td>4000</td><td></td><td></td><td>30025343960000</td></t<>	102 177000	37 056600	40 -103 177890	32.05664	660 FEL 2310 FSL	8	37E	26S	1/21/1999	2/4/1998		OIF	4000			30025343960000
Genome         Construct         No.         Market         No.	103 160900		50 -103.160900	32.08125	660 FEL 660 FSL	33	37E	25S	3/30/1993	3/3/1993		CHD	1000	MODEBLY HIG WY FED 3	TORA OIL & GAS ILC	30025341350000
CROBENT         SHEE         MAD         MURE         MURE <thmure< th="">         MURE         MURE         <t< td=""><td>103,194960</td><td>32.062040</td><td>40 -103.194960</td><td>32.06204</td><td>660 FEL 990 FNL</td><td>7</td><td>37E</td><td>265</td><td>FGGT//T/9</td><td>5/2/1000 5/2/1000</td><td>FINESEN</td><td>- LOUGHS</td><td>3000</td><td>EI PASO TOM EEDERAL #8</td><td>FAE II Operating LLC</td><td>30025317990000</td></t<></thmure<>	103,194960	32.062040	40 -103.194960	32.06204	660 FEL 990 FNL	7	37E	265	FGGT//T/9	5/2/1000 5/2/1000	FINESEN	- LOUGHS	3000	EI PASO TOM EEDERAL #8	FAE II Operating LLC	30025317990000
CHOREN, VAI         310         DATION         DATES         DATION         DATES         DATION         DATES         DATION         DATES         DATES <thdates< th="">         DATES</thdates<>	-103.194920	32.074840	40 -103.194920	32.07484	660 FEL 1650 FNL	σ	3/E	207	7667 /47 /1	7001/001	Discod	DITIGONS	2070	FARNSWORTH 'R' FEDE 1	CIMAREX ENERGY CO OF COLORADO	30025317890000
CHOREN 41         313         CHOREN 41         313         CHOREN 41         313         CHOREN 41         STREE AL	-103.194940	32.067200	00 -103.194940	32.06/20	ססט דבר משט דטר		710	705	7/1/1000	F/16/1993	Plupped	PLUGGAS	3080	C W SHEPHERD FEDERAL #2	CIMAREX ENERGY CO OF COLORADO	30025316140000
SREE         SET         STAT         AND         PHUGOI         PHUgged         A/25/192         STAT	-103.186410	32.0/0050	-103.186410		1000 FEI 200 FEI		375	296	7/10/1992	6/10/1992	RHODES; YATES-SEVEN RIVERS	GAS	3131	RHODES FEDERAL UNIT #62	FAE II Operating LLC	00007191552005
CROSPY AH         J19         PULGOI         PURGed         J2/193         J2/193 <thj2 1933<="" th="">         J2/193         <thj2 1933<<="" td=""><td>-103.186440</td><td>24.062930</td><td>-103.100440</td><td></td><td>1000 EN/I 1000 FCI</td><td>л</td><td>37F</td><td>265</td><td>12/23/1991</td><td>11/25/1991</td><td>RHODES; YATES-SEVEN RIVERS</td><td>GAS</td><td>3100</td><td>RHODES FEDERAL UNIT #54</td><td>FAE II Operating LLC</td><td>0000004100000</td></thj2></thj2>	-103.186440	24.062930	-103.100440		1000 EN/I 1000 FCI	л	37F	265	12/23/1991	11/25/1991	RHODES; YATES-SEVEN RIVERS	GAS	3100	RHODES FEDERAL UNIT #54	FAE II Operating LLC	0000004100000
CNOSEY A4I         S145         PHUGON         PHUgeed         4/26/1982         6/4/1982         2/5         37E         2         600 FELEBOL X1         31.00         PHUGON         PHUgeed         3/1.118/1         2/1.118/1         31.00         PHUGON         2/1.118/1         31.00         PHUGON         2/1.118/1         31.00         PHUGON         2/1.118/1         31.00         PHUGON         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.00         PHUGON         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.00         PHUGON         2/1.118/1         31.00         PHUGON         2/1.118/1         31.00         PHUGON         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.00         2/1.118/1         31.01         31.118/1         31.01         31.118/1         31.01         31.118/1         31.01         31.118/1         31.118/1         31.118/1         31.118/1 <td>-103,100330</td> <td>12.01010</td> <td>30 -103 196440</td> <td></td> <td>1980 FWL 660 FNI</td> <td>8</td> <td>37E</td> <td>265</td> <td>10/10/1991</td> <td>8/27/1991</td> <td>Plugged</td> <td>PLUGGAS</td> <td>3100</td> <td>RHUDES GSU 26</td> <td></td> <td>3007531/620000</td>	-103,100330	12.01010	30 -103 196440		1980 FWL 660 FNI	8	37E	265	10/10/1991	8/27/1991	Plugged	PLUGGAS	3100	RHUDES GSU 26		3007531/620000
SCROSP A44         S110         Phugged         4/26/1982         6/2/1981         2/3         60 FELSEN L         3.00 FELSEN L <td>103 186390</td> <td>32.076350</td> <td>50 -103.186390</td> <td></td> <td>1980 FWL 1100 FNI</td> <td>л</td> <td>37E</td> <td>265</td> <td>19/20/1991</td> <td>1661/07/8</td> <td>NNUUES; TATES-SEVEN KIVERS</td> <td>CND</td> <td>2200</td> <td></td> <td>CIMAREX ENERGY CO DE COLOBADO</td> <td>30025313400000</td>	103 186390	32.076350	50 -103.186390		1980 FWL 1100 FNI	л	37E	265	19/20/1991	1661/07/8	NNUUES; TATES-SEVEN KIVERS	CND	2200		CIMAREX ENERGY CO DE COLOBADO	30025313400000
CROSBY AM         413         PUGGOI         Plagged         5/4/1981         6/4/1982         2/5/         3/7         3/8         660 FELGEAL         3/10         Plagged         3/11/10         3/11         0/11/10	-103 156620	32,070310	10 -103.156620		660 FWL 1980 FSL	ω	37E	265	TGGT/OF/G	T66T/57/9	ringed	1 200000	2100	BHODES EEDEBAL LINIT #53	FAE II Operating LLC	30025313390000
CROSEY A#         SHIDE         Plugged         6/26/1982         6/24/1982         225         37E         31         660 FW 396 FEI 560 SV         320 ST	-103.182100	32,082100	100 -103.182100	32.08210	1980 FEL 990 FSL	32	3/E	CC7	COCT 177 1C	COLT IN IT	Dissond	PHISCAS	3100	CAGIECC4	CIMAREX ENERGY CO OF COLORADO	30025313240000
CROSEY A41         313         PLUGOIL         Plugged         5/4/1982         255         37E         3         60 FELGORIL         3200         FLUE           SUE FEDERAL 1         3100         PLUGOIL         Plugged         5/4/1981         235         37E         31         660 FM. 900 FL         32.00         103.00770           ANNOT RAMSAY WCF-8 #12         320         OIL         ALMAT, TAN-ATES-7 RAS         1/3/1982         235         37E         32         660 FM. 900 FL         32.00         103.00770           BAULTIS #10         2372         GAS         JALMAT, TAN-ATES-7 RAS         1/3/1982         235         36E         32         1400 FELGORI         123.00 FL         32.00 FL         32	-103.156640	32.082160	160 -103.156640	32.0821	660 FWL 990 FSL	34	3/6	200	COCT /01 /C	CUCT /27/0	IAI MAT. TAN. VATES. 7 BUDS	01	3159	ARNOTT RAMSAY NCT-B #13	FAE II Operating LLC	30025306550000
CROSEN A4         415         PIUGOI         PIUgged         4/26/1982         6/14/1982         225         37E         29         660 FELGEN 1         31.00         FUE         50.11         50.11         50.11         50.11         50.11         50.11         50.11         50.11         50.11         50.11         50.11         50.11         50.01         FUE         50.11         50.11         50.01         FUE         50.11         50.11         50.01         FUE         50.11         50.01         FUE         50.01         70.01         FUE         FUE         50.11         50.01         FUE         50.01         70.01         FUE         FUE         50.01         70.01         FUE         FUE         70.01         FUE         70.01         FUE         70.01	-103.156640		160 -103.15664(	32.0821	PPD FML 300 FSL	34	2/6	200	COCT 1010	0/1020	IAI MAT: TAN-YATES-7 RVBS	GAS	3375	DABBS 3	FAE II Operating LLC	30025295790001
CROSEN A44         313         PULGOI         Plugged         4/25/1982         6/24/1982         235         37E         23         660 FELGE DEL         31.00 FLUE         31.00 FLUE <td>-103.161980</td> <td>0 32.085790</td> <td>/90 -103.16198</td> <td></td> <td>220 FEL 2310 FSL</td> <td>200</td> <td>370</td> <td>250</td> <td>9/8/1989</td> <td>8/29/1989</td> <td>JALMAT: TAN-YATES-7 RVRS</td> <td>GAS</td> <td>3375</td> <td>DABBS 3</td> <td>FAE II Operating LLC</td> <td>30025295790000</td>	-103.161980	0 32.085790	/90 -103.16198		220 FEL 2310 FSL	200	370	250	9/8/1989	8/29/1989	JALMAT: TAN-YATES-7 RVRS	GAS	3375	DABBS 3	FAE II Operating LLC	30025295790000
CROSBY A#A         313         PLUGOIL         Plaged         5/1/302         255         37E         30         ECFEL60 F.L         32.00 FEL60 F.L	-103.168350	32,096620	-103.16835		2010 FTI 220 FSL	22	275	255	1/2/1986	12/18/1985	Plugged	PLUGOIL	3535	GREGORY 'A' 8	DC ENERGY LLC	30025295390000
CROSEVA#4         313         FULGOIL         Phugged         4/26/1982         6/2/1981         2.55         37E         2.9         660 FEL660 FSL         3.00         Phugged         1.0.2.00770           NUE FEDERAL 1         3100         Phugged         5/1/1981         255         37E         39         660 FNL 990 FSL         3.0.02120         1.0.3.200770           ARNOTT RANSAY NCT-8 #12         36.0         Phugged         5/1/1981         255         37E         30         660 FNL 990 FSL         3.0.02120         1.0.3.200770           BATTS ANAY NCT-8 #12         36.0         Phugged         1/3/1983         2155         37E         30         660 FNL 990 FSL         3.1.0290         1.03.200770           BATTS ANAY NCT-8 #12         36.0         Phugged         1/3/1983         2155         37E         30         1.600 FNL 990 FSL         3.1.0290         1.03.1.0940           JUSTS MN 11         31.50         GAS         JAMAT, TAN-YATES-RWS         1/3/1982         2155         37E         20         1.20 FNL 990 FSL         1.03.10940         1.03.10940         1.03.10940         1.03.10940         1.03.10940         1.03.10940         1.03.10940         1.03.10940         1.03.10940         1.03.10940         1.03.10940         1.03.10940	-103,168350	32,096620	02U -1U3.16835		2310 FWL 390 FSL	20	375	256	4/8/1986	4/4/1986	Plugged	GAS	3400	NANCY FEDERAL 1	BURLESON LEWIS B INCORPORATED	20025295290001
CROSEV A#         3419         Plugent         Pluggent         426/1982         6/34/1982         255         37E         30         Repeted for the formation of the formati			220 -103.1924/		7210 EW/L 000 FC	30	375	255	1/21/1986	12/8/1985	Plugged	PLUGGAS	3400	NANCY FEDERAL 1	BURLESON LEWIS B INCORPORATED	000675675005
CROSEY A #A         3419         Plugged         Plugged         5/4/1982         6/14/1982         255         37E         39         600 FEL 60F EL         32.095720         103.17790           BATES 3         3481         PLUGGAS         PLUGGAS         Plugged         5/4/1981         6/23/1981         255         37E         31         660 FWL 990 FEL         32.095720         103.207770           BATES 4         3481         PLUGGAS         Plugged         9/3/1981         9/3/1981         255         37E         31         660 FWL 990 FL         32.08720         -103.18990           EKAGLE 1         2966         PLUGGAS         Plugged         1/3/1982         3/18/1982         255         37E         32         1430 FEL 500 FL         32.080760         -103.18990           JUSTS FMT 11         3150         GAS         Plugged         11/20/1981         12/8/1981         255         37E         20         120 FWL 1930 FL         10.3123260         -103.18990           JUSTS FEDERAL UNIT #85         3607         PLUGGAS         Plugged         12/17/1982         21/17/1982         255         37E         2         220 FEL 1990 FNL         32.11760         -103.129290           RHODES FEDERAL UNIT #86         3700 <td< td=""><td></td><td>32.118950</td><td>102 102 102 124 /</td><td></td><td>100 EW/ 1450 EN</td><td>20</td><td>37F</td><td>255</td><td>6/10/2006</td><td>6/5/2006</td><td>Plugged</td><td>TA</td><td>3680</td><td>B M JUSTIS #12</td><td>FAE II Operating LLC</td><td>TODASTCZOC</td></td<>		32.118950	102 102 102 124 /		100 EW/ 1450 EN	20	37F	255	6/10/2006	6/5/2006	Plugged	TA	3680	B M JUSTIS #12	FAE II Operating LLC	TODASTCZOC
CROSBY A#4         313         PIUGOIL         Plugged         4/26/1982         C/14/1982         255         37E         29         660 FEL 660 FSL         32.092750         103.17970           BATES         3100         PLUGORI         Plugged         5/4/1981         255         37E         31         660 FEL 600 FSL         32.092750         103.209770           BATES         3881         PLUGGAS         PLUGGAS         9/3/1981         255         37E         30         1210 FWL 1635 FSL         32.000770         103.209770           BATES         3881         PLUGGAS         PLUGGAS         PLUGGAS         9/3/1981         255         37E         20         1210 FWL 1635 FSL         32.000760         103.189800           SEALE1         356         GAS         JALMAT; TAN-YATES-7 RVRS         1/3/1982         255         37E         20         120 FWL 1635 FSL         32.000760         103.189800           JUSTS 'BM' 11         3150         GAS         JALMAT; TAN-YATES-7 RVRS         1/2/1982         212/17/1982         255         37E         20         120 FWL 160 FSL         32.00760         103.1922400           JUSTS 'BM' 11         3150         GAS         JALMAT; TAN-YATES-7 RVRS         11/2/1982         121/17/1982	-103,199300		150 -102 10247		120 FWI 1450 FNI	20	37E	25S	9/24/1984	9/6/1984	Plugged	TA	3680	B M JUSTIS #12	rAc II Operating LLC	20022220020001
CROSBY A#4         3419         PluGOIL         Plugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.0957/0         103.179/0           BATES 3         340         PluGOIL         Plugged         5/4/1981         6/32/1981         255         37E         31         660 FEL 660 FSL         32.0957/0         103.179/0           BATES 3         3481         PluGGAS         Plugged         9/3/1981         255         37E         31         660 FWL 990 FSL         32.0977/0         103.18980           EAGLE 1         296         PluGGAS         Plugged         1/13/1982         255         37E         32         1480 FEL 500 FSL         32.102800         103.18980           JUSTI SMM 11         3150         GAS         JALMAT, TAN-YATES-7 RVRS         1/12/0/1981         2/25/1982         255         37E         20         120 FWL 1930 FSL         32.17660         103.18280           JUSTI SMM 11         3150         GAS         JALMAT, TAN-YATES-7 RVRS         11/2/1982         255         37E         20         120 FWL 1940 FWL         32.17660         103.12280           JUSTI SMN 11         3150         GAS         Plugged         2/2/1982         2/55         37E <td>-103.100000</td> <td></td> <td>500 -103 19930</td> <td></td> <td>1980 FEL 660 FNL</td> <td>30</td> <td>37E</td> <td>25S</td> <td>10/18/1984</td> <td>9/19/1984</td> <td>JALMAT; TAN-YATES-7 RVRS</td> <td>GAS</td> <td>34/5</td> <td>WINNINGHAM #9</td> <td></td> <td>3002528805000</td>	-103.100000		500 -103 19930		1980 FEL 660 FNL	30	37E	25S	10/18/1984	9/19/1984	JALMAT; TAN-YATES-7 RVRS	GAS	34/5	WINNINGHAM #9		3002528805000
CROSBY A #4         3419         PLUGOIL         Pugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.09570         103.17940           SUE FEDERAL 1         3100         PLUGOIL         Plugged         5/4/1981         6/23/1981         235         37E         31         660 FWL 990 FSL         32.082720         103.207770           BATES 3         3481         PLUGGAS         Plugged         9/3/1981         9/24/1981         255         37E         20         1210 FWL 1635 FSL         32.082720         103.207770           BATES 3         3481         PLUGGAS         Plugged         1/3/1982         3/8/1982         255         37E         32         1480 FEL 500 FSL         32.082720         103.207770           BATES 5         BMUSTIS #10         3273         GAS         Plugged         1/3/1982         3/8/1982         255         37E         32         1480 FEL 500 FSL         32.082760         103.15220           JUSTIS BM '11         3150         GAS         JULGOIL         Plugged         11/2/1782         2125         37E         20         720 FWL 32.1760         103.12920           JUSTIS 'BM '11         3150         GAS         Plugged         2	102 100100		500 -103 19810		1610 FEL 1160 FSI	19	37E	25S	1/22/1984	12/26/1983	JALMAT; TAN-YATES-7 RVRS	CAD	401/			30025286320000
CROSBY A#4         313         PIUGOIL         PIUgged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.09570         103.1794           SUE FEDERAL 1         3100         PIUGOIL         PIUgged         5/4/1981         6/23/1981         255         37E         31         660 FEL 660 FSL         32.082720         103.207770           BATE3         343         PIUGGAS         PIUgged         9/3/1981         255         37E         31         660 FWL 1930 FSL         32.082720         103.207770           BATUS AMOTT RAMSAY NCT-B #12         3620         PIUGGAS         PIUgged         1/13/1982         3/18/1982         255         37E         32         1480 FEL 500 FSL         32.112890         1.03.18980           LSTS-CHRSTMS GS UNT 1         31.50         GAS         JALMAT; TAN-VATES-7 RVRS         1/12/1982         215S         37E         20         1210 FWL 1635 FSL         32.080760         1.03.18980           JUSTIS 'BM' 11         31.50         PIUGGAS         PIUgged         11/2/1982         215S         37E         20         7210 FEL 1980 FNL         32.117470         1.03.19230           JUSTIS 'BM' 11         31.50         GAS         PIUGGAS         PIUgged	-103 173640		390 -103.17364		660 FWL 1650 FNI	33	37E	25S	3/4/1984	1/12/1984	JALIVIAI; IAN-TAIES-/ KVKS	900	0170	WINNINGUANA #9	FAF II Operating II C	30025285190000
CROSBY A#4         3419         Plugon         Plugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.09570         103.17940           SUE FEDERAL 1         3100         Plugon         Plugged         5/4/1981         6/14/1982         255         37E         31         660 FWL 990 FSL         32.082720         103.207770           BATES 3         3481         Plugged         5/4/1981         6/25/1981         255         37E         31         660 FWL 990 FSL         32.082720         103.207770           ARNOTT RAMSAY NCT-B #12         560         Plugged         9/3/1981         9/3/1981         255         37E         32         1480 FEL 500 FSL         32.082720         103.208770           EAGLE 1         256         Plugged         1/13/1982         255         37E         32         1480 FEL 500 FSL         32.08270         103.180490           EAGLE 1         356         Plugged         1/13/1981         1/13/1982         255         37E         32         1480 FEL 500 FSL         32.080760         103.180490           JUSTS 'BM' 11         3150         GAS         JAMAT, TAN-YATES-7 RVRS         111/20/1981         12/5         37E         20         120 FWL	-103.193850	0 32.080280	280 -103.19385		330 FEL 330 FSL	31	3/E	252	SAGT /nT /o	COCT /C7/1	MINAT TAN VATES 7 AVAS	GAG	2010	FI PASO TOM FEDERAL #5	LANEXCO INCORPORATED	30025285080000
CROSBY A#4         3419         Plugon         Plugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.09570         1.03.17940           SUE FEDERAL 1         3100         Plugon         Plugged         5/4/1981         6/14/1982         255         37E         31         660 FWL 990 FSL         32.09570         1.03.207770           BATES 3         3481         Plugged         5/4/1981         6/23/1981         255         37E         31         660 FWL 990 FSL         32.082120         1.03.207770           BATES 3         3481         Plugged         5/4/1981         255         37E         31         660 FWL 990 FSL         32.082120         1.03.207770           EAGLE 1         295         01L         JALMAT; TAN-YATES-7 RVRS         1/13/1982         255         37E         32         1480 FEL 500 FSL         32.082760         1.03.12890           JUSTS -CHRSTMS GS UNT 1         3150         GAS         JALMAT; TAN-YATES-7 RVRS         11/20/1982         12/5/1982         255         37E         20         120 FWL 1940 FNL         32.086760         1.03.12890           JUSTS 'BM '11         3150         FLUGOIL         Plugged         12/1/1982         1/21/1982         2	-103.186450		300 -103.18645		1980 FWL 1980 FN	~	3/6	202	00001110	0/10/10/	IAI MAT. TAN. VATES. 7 BVBS	GAS	3350	M F LEGAL #5	FAE II Operating LLC	30025282890000
CROSEY A #4         34.9         PLUGOIL         PLugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.09570         1.03.17940           SUE FEDERAL 1         3100         PLUGOIL         PLUGOIL         PLUGOIL         PLUGOIL         20.09570         1.03.17940         1.03.17940         1.03.17940         1.03.17940         1.03.17940         1.03.17940         1.03.17940         1.03.17940         1.03.17940         1.05.17940         1.03.12820         1.05.17940         1.05.17940         1.03.12820         1.05.17940         1.05.17940         1.03.12820         1.05.17940         1.05.17940         1.05.1794	-103.186450		300 -103.18645		1980 FWL 1980 FN	•	3/10	202	+0CT /+2/1	7/10/1000	RHODES: VATES-SEVEN RIVERS	GAS	3700	<b>RHODES FEDERAL UNIT #86</b>	FAE II Operating LLC	30025281290001
CROSEV A #4         34.9         Plugoli         Plugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.09570         103.17940           SUE FEDERAL 1         3100         Plugoli         Plugged         5/4/1981         6/25/1981         255         37E         31         660 FWL 990 FSL         32.082720         103.20770           BATES 3         3481         Plugged         9/3/1981         255         37E         31         660 FWL 990 FSL         32.082720         103.20770           BATES 3         3481         Plugged         9/3/1981         255         37E         31         660 FWL 990 FSL         32.082720         103.20770           BATES 3         3481         Plugged         9/3/1981         255         37E         32         1240 FWL 1635 FSL         32.11280         103.20770           EAGE 1         2966         Plugged         1/13/1982         3/18/1982         255         37E         32         1480 FEL 500 FSL         32.08570         103.112800         103.218280           JUSTS 'BM '11         3150         GAS         JALMAT; TAN-YATES-7 RVRS         11/20/1981         12/5/1982         255         37E         20         120 FWL 1940 FNL	-103.182090		570 -103.18209		1980 FEL 660 FNL		3/10	202	TCCT /CT /0	8/20/102/	RHODES: VATES-SEVEN RIVERS	GAS	3700	<b>RHODES FEDERAL UNIT #86</b>	FAE II Operating LLC	30025281290000
CROSEV A #4         34.9         Plugoli         Plugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.09570         1.03.17940           SUE FEDERAL 1         3100         Plugoli         Plugged         5/4/1981         6/25/1981         255         37E         31         660 FWL 990 FSL         32.082120         -103.17940           BATES 3         3481         Plugged         0/L         Plugged         5/4/1981         6/25/1981         255         37E         31         660 FWL 990 FSL         32.082120         -103.20770           BATES 3         3481         Plugged         0/L         JALMAT; TAN-YATES-7 RVRS         1/13/1982         255         37E         20         1210 FWL 1635 FSL         32.102801         -103.20770           B.M.JUSTIS #IN         3150         Plugged         1/J3/1982         3/18/1982         255         37E         32         1480 FEL 500 FSL         32.082760         -103.215220           JUSTS-CHRSTMS GS UNT 1         3150         GAS         JALMAT; TAN-YATES-7 RVRS         11/20/1981         12/5         37E         20         120 FWL 1940 FNL         32.085760         -103.215220           JUSTS-CHRSTMS GS UNT 1         31.50         FULGOL <td>-103.182090</td> <td></td> <td>570 -103.18209</td> <td></td> <td>1980 FEL 660 FNL</td> <td></td> <td>2/0</td> <td>200</td> <td>6/10/1001</td> <td>3/6/1001</td> <td>Plugged</td> <td>PLUGGAS</td> <td>3607</td> <td><b>RHODES FEDERAL UNIT #52</b></td> <td>CIMAREX ENERGY CO OF COLORADO</td> <td>30025281140001</td>	-103.182090		570 -103.18209		1980 FEL 660 FNL		2/0	200	6/10/1001	3/6/1001	Plugged	PLUGGAS	3607	<b>RHODES FEDERAL UNIT #52</b>	CIMAREX ENERGY CO OF COLORADO	30025281140001
CROSBY A #4         34.19         Plugoli.         Plugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.09570         103.17940           SUE FEDERAL 1         3100         Plugoli.         Plugged         5/4/1981         6/14/1982         255         37E         31         660 FWL 990 FSL         32.082120         -103.17940           BATES 3         3481         Pluged         5/4/1981         6/25/1981         255         37E         31         660 FWL 990 FSL         32.082120         -103.17940           BATES 3         3481         Plugged         9/3/1981         255         37E         20         1210 FWL 1935 FSL         32.082120         -103.120770           BATES 3         3481         Plugged         9/3/1981         3/18/1982         255         37E         20         1210 FWL 1935 FSL         32.082120         -103.120870         -103.120870         -103.120870         -103.120870         -103.120870         -103.120870         -103.120870         -103.120270           B M JUSTS FW 11         3150         Plugged         JALMAT; JAN-YATES-7 RVRS         11/20/1981         12/8/1981         255         37E         20         120 FWL 1940 FNL 32.085760         -103.112620	-103.182890		470 -103.18285		2210 FEL 1980 FN	- 20	3/6	200	201/102	6/13/1083	Plupped	PLUGGAS	3607	RHODES FEDERAL UNIT #52	CIMAREX ENERGY CO OF COLORADO	30025281140000
CROSBY A #4         34.19         Plugoli.         Plugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.09570         -103.17940           SUE FEDERAL 1         3100         Plugoli.         Plugged         5/4/1981         6/14/1982         255         37E         31         660 FWL 990 FSL         32.09570         -103.207770           BATES 3         3481         Plugged         5/4/1981         6/14/1982         255         37E         31         660 FWL 990 FSL         32.082210         -103.207770           BATES 3         3481         Plugged         9/3/1981         9/24/1981         255         37E         20         1210 FWL 1935 FSL         32.082210         -103.207770           EARDT RAMSAY NCT-B #12         3520         OIL         JALMAT; TAN-YATES-7 RVRS         1/13/1982         3/18/1982         255         37E         32         1480 FEL 500 FSL         32.082700         -103.180480           EARDT RAMSAY NCT-B #12         3256         JALMAT; TAN-YATES-7 RVRS         10/3/1982         1/3/1982         255         37E         32         1480 FEL 500 FSL         32.082760         -103.180480           JSTS-CHRSTMS GS UNT 1         3150         GAS         JALMAT; TAN-YATES-7	-103.182890		4/0 -103.18285		2210 FEL 1980 FN	20	372	760	10/17/1000	17/15/1927	Plugged	GAS	3150	JUSTIS 'BM' 11	HARTMAN DOYLE	30025278370001
CROSEV A #4         34.19         PLUGOIL         PLugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.09576         -103.17940           SUE FEDERAL 1         3100         PLUGOIL         PLUGOIL         PLUGOIL         9108ged         5/4/1981         255         37E         31         660 FEL 660 FSL         32.09576         -103.17940           BATES 3         3481         PLUGGAS         PLUGGAS         PLUGGEd         5/4/1981         6/23/1981         255         37E         31         660 FWL 990 FSL         32.082120         -103.207770           BATES 3         3481         PLUGGAS         PLUGGEd         9/3/1981         9/24/1981         255         37E         20         1210 FWL 1635 FSL         32.112890         -103.189890           FARNOTT RAMSAY NCT-B #12         356         PLUGGAS         PLUGGEd         1/13/1982         3/18/1982         255         37E         32         1480 FEL 500 FSL         32.082760         -103.189890           FAGLE 1         3100         PLUGAS         JALMAT; TAN-YATES-7 RVRS         1/13/1982         3/18/1982         255         37E         32         1480 FEL 500 FSL         32.085760         -103.132320           JSTS-CHRS	-103.190320		103.19032		100 FVVL 2225 FN	2 2	275	250	12/17/1982	12/1/1982	Plugged	PLUGOIL	3150	JUSTIS 'BM' 11	HARTMAN DOYLE	30025278370000
CROSBY A #4         3419         Plugoli         Pluged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.095750         -103.177940           SUE FEDERAL 1         3100         Plugoli         Pluged         5/4/1981         6/23/1981         255         37E         31         660 FWL 990 FSL         32.095750         -103.177940           BATES 3         3481         PluGGAS         Plugged         5/4/1981         6/23/1981         255         37E         31         660 FWL 990 FSL         32.085760         -103.207770           ARNOTT RAMSAY NCT-B #12         3620         OIL         JALMAT; TAN-YATES-7 RVRS         1/13/1982         3/18/1982         255         37E         20         1210 FWL 1635 FSL         32.085760         -103.18980           FAGLE 1         2966         Plugged         1/13/1982         1/13/1982         255         37E         32         1480 FEL 500 FSL         32.085760         -103.18480           BM JUSTIS #10         3273         GAS         JALMAT; TAN-YATES-7 RVRS         11/20/1981         12/8/1981         255         37E         20         1200 FEL 5500 FSL         32.085760         -103.137200           BM JUSTIS #10         3273         GAS	-103,192480		-103.19242		700 EW/ 100E EW	30	375	255	2/25/1982	2/8/1982	Plugged	GAS	3150	JSTS-CHRSTMS GS UNT 1	BEITIS BOYLE & STOVALL	300232/0640000
CROSBY A #4         3419         Plugoli         Pluged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.095750         -103.177940           SUE FEDERAL 1         3100         Plugoli         Pluged         5/4/1981         6/23/1981         255         37E         31         660 FEL 660 FSL         32.095750         -103.177940           BATES 3         3481         Pluged         9/3/1981         6/23/1981         255         37E         31         660 FWL 990 FSL         32.082720         -103.207770           ARNOTT RAMSAY NCT-B #12         3620         OIL         JALMAT; TAN-YATES-7 RVRS         1/13/1982         3/18/1982         255         37E         32         1480 FEL 500 FSL         32.080760         -103.18080           EAGLE 1         2966         Plugged         1/13/1982         3/18/1982         255         37E         32         1480 FEL 500 FSL         32.080760         -103.180400           EAGLE 1         2966         Plugged         10/3/1981         10/3/1982         255         36E         36         1650 FEI 5010 FSL         32.080760         -103.180400	-103,215220		100 -103 103 102 10		100 EWI 10/0 EN	20	37F	25S	12/8/1981	11/20/1981	JALMAT; TAN-YATES-7 RVRS	GAS	3273	B M JUSTIS #10	FAE II Operating LLC	000012220050
CROSBY A #4         34.19         Plugoli.         Plugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.095750         -1.03.17940           SUE FEDERAL 1         3100         Plugoli.         Plugged         5/4/1981         6/23/1981         255         37E         31         660 FWL 990 FSL         32.082120         -1.03.27770           BATES 3         3481         Plugged         5/4/1981         6/24/1981         255         37E         31         660 FWL 990 FSL         32.082120         -1.03.20770           ARNOTT RAMSAY NCT-B #12         3620         OIL         JALMAT; TAN-YATES-7 RVRS         1/13/1982         3/18/1982         255         37E         32         1480 FEL 500 FSL         32.08760         -103.180970	-103,180480		760 100 14611		1650 FFI 2310 EC	36	36E	25S	4/6/1982	10/3/1981	Plugged		2966	EAGLE 1	SOUTHWEST RUTALITES INCORPORATED	
CROSBY A #4         34.19         PLUGOIL         Plugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.095750         -103.177940           SUE FEDERAL 1         3100         PLUGOIL         Plugged         5/4/1981         6/23/1981         255         37E         31         660 FWL 990 FSL         32.085720         -103.177940           BATES 3         3481         PLUGGAS         Plugged         5/4/1981         6/23/1981         255         37E         20         1210 FWL 1635 FSL         32.132801         -103.178940	103 100 000	10 27 22 200	760 -103 180/9		1480 FEL 500 FSI	32	37E	25S	3/18/1982	1/13/1982	JALMAT; TAN-YATES-7 RVRS			ARNUTT RAMSAY NCT-8 #12		30035375680000
CROSBY A #4         3419         PLUGOIL         Plugged         4/26/1982         6/14/1982         255         37E         29         660 FEL 660 FSL         32.095750         -103.177940           SUE FEDERAL 1         3100         PLUGOIL         Plugged         5/4/1981         6/23/1981         255         37E         31         660 FWL 990 FSL         32.082120         -103.307770	-103.201110	10 37 11 200	890 -103 18898		1210 FWL 1635 FS	20	37E	25S	9/24/1981	9/3/1981	Plugged			BAIES 3	EAE II Opportune UC	30025275510000
CROSBY A #4 3419 PLUGOIL Plugged 4/26/1982 6/14/1982 255 37E 29 660 FEL 660 FSL 32.095750 -103.177940	-103 207770	70 32 08212	120 -103.2077		660 FWL 990 FSI	31	37E	25S	6/23/1981	5/4/1981	Plugged		3100	SUE FEDERAL I	BUBINGTON BESOUBLES OB COUD	30025275420000
	102 177040	10 32 095750	750 -103.17794		660 FEL 660 FSL	. 29	37E	25S	6/14/1982	4/26/1982	Plugged	1 20	3419	CRUSET A #4	BIIRI FSON I EWIS B INCODEDDATED	30025272810000
														CBOCEV A #A	AMERICAN INI AND RESOLIRCES COMPANY LLC	30025272650001

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30025433600000	30025118640000	SU 255-37E 3288	30025118550000	SU_25S-37E_32GG	SU_25S-37E_32CC	30025267570000	30025269630000	30025269620000	SII 255 275 275	UWI/API	30025118450000	30025269630000	30025118540000	30025267570000	SU 255-37E 3266	30025118340000	30025118310000	00005118230000	SU 255-37E 32BB	SU 255-37E 32FF	30025269620000	30025261060000	SU 25S-37E 32CC	UWI/API	20005/247/2000	SU 25S-37E 32JJ	30025261060000	30025118620000	30025118630000	30025262780000	30025267570000		30025118340000	30025118230000	SU 255-37E 32CC	SU_255-37E_32GG	30025269620000	SU 255-37F 3288	UWI/API	30025306550000	30025262780000	SU_25S-37E_32CC	30025118550000		30025119550000	30025269620000	30025118570000	SU 255-37E 32JJ	30025262800000	30025433600000	3002526757000	30025118640000	30025269630000	<u>UWI/API</u>
OWL SWD OPERATING LLC	FAE II Operating LLC	FAE II Operating LLC	FULFER OIL & CATTLE COMPANY LLC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC		OPERATOR	BURLINGTON RESOURCES O&G CO LP	FAE II Operating LLC	FULFER OIL & CATTLE COMPANY LLC	FAE II Operating LLC	FAF II Operating 11C	RUBI ESON LEWIS B INCORDOBATED	TEVAS BACIELO DI COMBANY	FULFER OIL & CATTLE COMPANY LLC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	OPERATOR	HARTMAN DOYLE	FAE II Operating LLC	FAE II Operating LLC	CHEVRON U S A INCORPORATED	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	AMERICAN INLAND RESOURCES COMPANY LLC	BURLESON LEWIS B INCORPORATED	AMERADA OLSEN & PEERLES	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	EAE II Opporting II C	OPERATOR	FAE II Operating LLC	FAE II Operating LLC	FAE II Oberating LLC	FULFER OIL & CATTLE COMPANY ILC	BURLINGION RESOURCES D&G CO LP	FAE II Operating LLC	FAE II Operating LLC	CIMAREX ENERGY CO OF COLORADO	FAE II Operating LLC	FAE II Operating LLC	OWL SWD OPERATING LLC	FAE II Operating LLC	FAE II Operating LLC	FAE II Operating LLC	OPERATOR
KIMBERLY SWD 1	ARNOTT RAMSAY NCT-B #1	ARNOTT RAMSAY NCT-B #18	DYER 3	ARNOTT RAMSAY NCT-B #16	ARNOTT RAMSAY NCT-B #14	ARNOTT RAMSAY NCT-B #9	ARNOTT RAMSAY NOT R #11	ARNOTT RAMSAY NCT-B #10	WELLUADEL	WELLIABEI	WINNINGHAM 6	ARNOTT RAMSAY NCT-B #11	DVFR 2	ARNOTT RAMSAY NCT-8 #9	ADVICTT BAMEAN ANT D MAD	JENKINS 1	IMA HAYS 1	DYER 3	ARNOTT RAMSAY NCT-B #18	ARNOTT RAMISAY NCT-B #15	ARNOTT RAMSAY NCT-B #10	ARNOTT RAMSAY NCT-B #4	ARNOTT RAMSAY NCT-B #14	WELL LABEL	ARNOTT RAMSAY NCT-B #7	ARNOTT RAMSAY NCT-B #17	ARNOTT RAMSAY NCT-B #4	ARNOTT RAMSAY NCT B #2	ARNOTT RAMSAY NCT-B #3	ARNOTT RAMSAY NCT-B #6	ARNOTT BAMSAY NCT-B #15	CROSBY A #1	JENKINS 3	IMA HAYS 1	ARNOTT RAMSAY NCT-B #14	ARNOTT RAMSAY NCT-B #16	ARNOTT RAMSAY NCI-B #10		WELL LABEL	ARNOTT RAMSAY NCT-B #13	ARNOTT RAMSAY NCT-B #6	ARNOTT BAMSAY NOT-B #14	ARNOTT RAMSAY NCT-B #16	LEGAL 1	M F LEGAL #5	ARNOTT RAMSAY NCT-B #10	M F LEGAL #2	ARNOTT RAMSAY NCT-B #17	ARNOTT RAMSAY NCT-B #8	KIMBERI V SWD 1	ARNOTT RAMSAY NCT-B #15	ARNOTT RAMSAY NCT-B #1	ARNOTT RAMSAY NCT-B #11	WELL LABEL
	3400		2977			-	2472	2400	la	;	3191	3473	2171	3450	3445	31/4	8576	2977			3400	3600		티	3600		3600	3225	8797	3600	2460	3100	3443	8576		100	3400	ŀ	IJ	3159	3600	1157	7701	3254	3350	3400	3350		3630	3450		3400	3473	Ū
SWD	GAS	LOC-INJ	GAS	LOC-INJ	LOC-INJ	OIL		LOC-INJ	WELL IYPE	WEIL TYPE	PLUGOIL	LOC-INJ / TA		LUC-INJ	PLUGGAS	PLUGOIL	DRY	GAS	LOC-INJ	LOC-INJ	OIL	SWD	LOC-INJ	WELL TYPE	PLUGOIL	LOC-INJ	SWD	PLUGGAS	TA	0	LOC-INJ	PLUGGAS	PLUGGAS	DRY	LOC-INJ		LOC-INJ		WELL TYPE	OIL	OIL	GAD	LOC-INJ	PLUGGAS	GAS	OIL	PLUGGAS	IOC-INI	011	OIL	LOC-INJ	GAS	LOC-INJ / TA	WELL TYPE
SWD; DEVONIAN-SILURIAN	JALMAT; TAN-YATES-7 RVRS	Location-Injection	JALMAT; TAN-YATES-7 RVRS	Location-Injection	Location-Injection	LANGLIE MATTIX: 7 RVRS-O-GRAYBURG	IALMAT, TAN VATES 7 NURS	Location-Injection	CURRENT ZONE		Plugend	IAI MAT: TAN-YATES-7 AVAS	LANGLE MATINA; / RVRS-Q-GKAYBURG	Location-Injection	Plugged	Plugged	Plugged	JALMAT; TAN-YATES-7 RVRS	Location-Injection	Location-Injection	JALMAT; TAN-YATES-7 RVRS	SWD; SEVEN RIVERS-QUEEN	Location-Injection	CURRENT ZONE	Plugged	Location-Injection	SWD; SEVEN RIVERS-QUEEN	Plugged	TA TA	-I ANGLIE MATTIX: 7 RVRS-Q-GBAVBLIDG	Location-Injection	Plugged	Plugged	Plugged	Location-Injection	Incation-Interction	Location-Injection		CURBENT ZONE	JALMAT; TAN-YATES-7 RVRS	LANGUE MATTIX: 7 RVRS-O-GRAYBURG	JALMAI; JAN-TATES-/ KVKS	Location-Injection	Plugged	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	Plugged	Incrition-Interview	IAI MAT: TAN-YATÉS.7 RVRS	LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG	Location-Injection		A JALMAT; TAN-YATES-7 RVRS	CURRENT ZONE
2005	1898	1849	1790	1565	1268	1142	ack	•	Distance	2007	205	2303	6177	2142	1893	1816	1815	1664	1436	1268	1211	1115	•	Distance	2682	2565	2429	2415	2384	2055	1849	1848	1808	1723	1436	1384	0	Charance	Dictance	2560	2500	6677	1987	1977	1850	1840	1792	1704	1307	1099	1083	926	0	Distance
	4/28/1935		6/26/1954			4/22/1980	ORET/C/E		SPUD DATE	TCETIOIH	1/6/1051	11/21/1001	4/22/1980	- 100 10000	11/20/1951	12/5/1950	11/29/1956	6/26/1954			9/5/1980	12/27/1978		SPUD DATE	4/14/1979		12/27/1978	8/22/1955	10/26/1956	4/22/1980		2/23/1929	11/20/1951	11/29/1956		DRGT /C/K		21 00 0415		6461/9/6	4/6/1979	6/26/1954		12/11/1950	7/29/1983	9/5/1980	8/18/1951	c/c1/07/h	1/36/1070	4/22/1980		4/28/1935	11/21/1981	SPUD DATE
	8/8/1935		7/11/1954	1		2/28/1080	ORGT/DT/DT		COMP DATE	TCET 107 14	7/20/1051	+	1.	+	5/12/1952	12/10/1951		7/11/1954				2/7/1979		COMP DATE	7/11/1979	-	-	10/9/1955	+	+	+		-	5 1/31/1957		ORET/DT/DT	antantan		-	9/22/1989	6/8/1970	7/11/1954	┢	-	$\square$	10/10/1980	+	ELETICT II	+	0 5/28/1980	-		-	E COMP DATE
255	25S	255	25S	255	1	755			E TOWNSHIP	_	T	T	255						25S				250	TOWNSHIP		+	255	1	t	1	255			7 255	25		$\uparrow$		_	1	255				3 25S		255	t	+				82 255	TE TOWNSHIP
37E	37E	37E	37E	37E	375	37E	37E		HIP RANGE		3/15		-				_		_	_	-	-	276	R	\$ 37E	_	_	-			-		_	_	-	+				+	-	-				+	-	-	_			_	$\downarrow$	
31	+	1		32	+	32	+		GE SECTION	T	32	+	+	E 32					+	3	+	- - 	$\dagger$	IGE SECTION	-	+	+	+	3/E 32	+	$\vdash$	37E 29	+	-	3/12 3	37E 32	$\vdash$	KANGE SECTION		+	37E 32	+	Н			+	37E 3	+	37E 3	$\vdash$		+	37E 3	RANGE SEC
		-		26	1		1		N	+				2				-	-	_		_	+	ION							2	9					-					1	32	31		32	32	32	3 2	32	32	+		SECTION
287 FEL 1450 FSL	330 FWL 990 FSI	1115 ENI & 2405 EWI	330 FEL 1650 FNI	2625 ENI & 2630 EEI	1300 FWL 1980 FSL	990 FWL 1650 FSL	1980 FWL 1980 FNL	2	FOOTAGE	660 FEL 660 FSL	990 FWL 1650 FSL	980 FEL 735 FNL	1980 FWL 1980 FSL	625 FNL & 2630 FEL	1980 FWL 760 FSL	330 FWL 660 FSL	1980 FWL 660 FSL	330 FEL 1650 FNL	1115 FNI & 2495 FWI	155 ENI & 1105 EM/I	1980 FWI 1980 FNI	330 FINL & LIGU FWL	0 FNI 0 4400 FM	FOOTAGE	990 FEL 2130 FSL	1350 FSI & 2635 FEI	330 FWI 330 FNL	GEN EEL 1000 ENL	1980 FEL 1980 FSL	1980 FWL 1980 FSL	2455 FNL & 1195 FWL	1980 FEL 660 FSL	1980 FWL 760 FSL	1980 FWL & 1160 FSI	2625 FNL & 2630 FEL	1980 FWL 1980 FNL	1115 FNL & 2495 FWL	FUUTAGE	1380 FEL 330 FSL	1980 FEL 1980 FSL	1060 FNL & 1160 FWL	330 FEL 1650 FNL	2625 FNL & 2630 FEL	660 FEL 660 FSL	330 FEL 330 FSL	1980 FWL 1980 FSL	1350 FSL & 2635 FEL	1980 FWL 660 FSL	287 FEL 1450 FSL	1980 FWL 1980 FSL	2455 FNL & 1195 FWL	330 FWL 990 FSL	990 EWI 1650 ESI	FOOTAGE
32.083360	32.02000		195580 25	27 086664	32.084820	32.083910	32.088470	32.087118	SURFLAT	32.095710	32.083910	32.091880	32.084820	32.086664	32.096000	32.095720	32.095730	32.089360	303000 CE	01100010	22.02220	32.090940	SURFLAI	NAD27-	32.085240	066760.75	32.088500	32.092120	32.084820	32.084820	32.087118	32.095740	32 096000	32.090940	32.086664	32.088470	32.090808	SURFLAT	32.082100 NAD27-	32.084820	32.090940	32.089360	32.086664	32.081190	32.080280	32.084820	32.083084	32.081190	32.083360	32.084820	32.087118	32.082090	27 NOTAL	NAD27-
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Page 1 of 2

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ANNOT I NAMISAT INCI-8 #18										ARNOTT RAMSAY NCT-B #19				$\downarrow$	ARNOTT RAMSAY NCT-B #13	ARNOTT RAMSAY NOT B #17	WEILLAREI	R O GREGORY #3	EL PASO TOM FEDERAL #7	ARNOTT RAMSAY NCT-B #8	ARNOTT RAMSAY NCT-B #9	SHEPARD-FEDERAL B 3	RHODES FEDERAL UNIT #52	ARNOTT RAMSAY NCT B #2	ARNOTT RAMSAY NCT-B #16	ARNOTT RAMSAY NCT-R #17	ARNOTT RAMSAY NCT-B #5	ABNOTT BAMEAV NCT 5 #2	ARNOTT BAMSAY NCT 8 #7	ARNOTT RAMSAY NCT-B #13	ARNOTT RAMSAY NCT-B #19	WELL LABEL		ARNOTT RAMSAY NCT-R #5	ARNOTT RAMSAY NCT B #2	ARNOTT RAMSAY NCT-B #14	ARNOTT RAMSAY NCT-B #11	ARNOTT RAMSAY NCT-B #8	ARNOTT RAMSAY NCT-B #19	ARNOTT RAMSAY NCT-B #7	ARNOTT RAMSAY NCT-B #13	ARNOTT RAMSAY NCI-B #18	ABNOTT BANGAY NCT 5 #17	AKNULI KAMISAY NCT-B #6	ARNULI KAMSAY NCT-B #9	ARNOTT RAMSAY NCT-B #10	ARNOTT RAMSAY NCT-B #16	WELL LABEL		ABNOTT BAMSAY NCT 8 #6	ABNOTT BAMEAV NCT B #8	M F LEGAL #2	ARNOTT RAMSAY NCT-B #17
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LOC-INJ	GAS	GAS	LOC-INJ	PLUGGAS	OIL	PLUGOIL	LOC-INJ / TA	OIL	PLUGOIL	LOC-INI	LOC-INJ	₽	₽ F	9		WELL ITPE		OIL	PLUGOIL	₽	OIL	PLUGGAS	PILIGGAS	PILIGGAS	LOC-INI	FLUGUIL	OIL	PLUGOIL	OIL	₽	LOC-INJ	WELL TYPE	FLOGOIL		PLUGGAS	LOC-INJ	LOC-INJ / TA	OIL	LOC-INI	PLUGOIL	OII DI	LOC-INJ	LOC-INJ	OL	OIL	OIL	LOC-INJ	WELL TYPE	CIL	SWD	OIL	PLUGGAS	LOC-INJ
Location-Injection	JALMAT; TAN-YATES-7 RVRS	RHODES; YATES-SEVEN RIVERS	Location-Injection	Plugged	JALMAT; TAN-YATES-7 RVRS	Plugged	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	Plingen	Incation-Injection	Incation-Injection	JALMAT: TAN-YATES-7 RVRS	LANGLE MATTIX: 7 RVRS-0-GRAVELING	IANGUE MATTIN: 7 BUDS-0 GRAVBURG	INIMAT: TAN VATES 7 BURS			JALMAT; TAN-YATES-7 RVRS	Plugged	JALMAT: TAN-YATES-7 RVRS	LANGLIE MATTIX: 7 RVRS-0-GRAYBURG	plumod	Dinacod	Dimon	Location-Injection	Plugged	LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG	Plugged	JALMAT; TAN-YATES-7 RVRS	JALMAT; TAN-YATES-7 RVRS	Location-Injection	CURRENT ZONE	Plugged	JALMAT; TAN-YATES-7 RVRS	Plugged			JALMAT; TAN-YATES-7 RVRS	- negec	Philoped	IAI MAT: TAN_VATES.7 BVDS	Location-Injection	Location-Injection	LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG	LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG	JALMAT; TAN-YATES-7 RVRS	Location-Injection	CURRENT ZONE	LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG	SWD; SEVEN RIVERS-QUEEN	JALMAT; TAN-YATES-7 RVRS	Plugged	Location-Injection
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Page 2 of 2



#### HINKLE SHANOR LLP

ATTORNEYS AT LAW PO BOX 2068 SANTA FE, NEW MEXICO 87504 505-982-4554 (FAX) 505-982-8623

WRITER Dana S. Hardy, Partner dhardy@hinklelawfirm.com

February 10, 2020

#### VIA CERTIFIED MAIL

New Mexico State Land Office Oil & Gas Division 310 Old Santa Fe Trail Santa Fe, NM 87501

> FAE II Operating, LLC New Mexico Oil Conservation Division Application Re:

Dear Sir or Madam:

Enclosed is a copy of an application that FAE II Operating, LLC ("FAE") has filed with the New Mexico Oil Conservation Division ("the Division"). FAE seeks authorization to implement the Arnott Ramsey Waterflood Project by injecting produced water into the Seven Rivers Formation. The Project area will be located on State lands and will include 640 acres, more or less, comprised of Section 32, Township 25 South, Range 37 East in Lea County. To implement the Project, FAE proposes to convert its Arnott Ramsay NCT-B #11 well from a producer to an injector and to complete the following injection wells within the Project area: Arnott Ramsay NCT-B #14, Arnott Ramsay NCT-B #15, Arnott Ramsay NCT-B #16, Arnott Ramsay NCT-B #17, Arnott Ramsay NCT-B #18, and Arnott Ramsay NCT-B #19. FAE also requests: (1) authorization to obtain administrative approval of additional injection wells within the Project area and expand the Project without the necessity of additional hearings; and (2) qualification of the Project for the Recovered Oil Tax Rate.

This matter (Division Case No. 21118) is scheduled for hearing at 8:15 a.m. on Thursday, March 5, 2020 in Porter Hall at the Division's offices located at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. The New Mexico State Land Office ("the State") is not required to attend this hearing, but as an owner of an interest that may be affected by FAE's application, it may appear at the hearing and present testimony. If the State does not appear at that time and become a party of record, it will be precluded from contesting the matter at a later date.

A party appearing in a Division case is required by the Division's Rules to file a Pre-Hearing Statement, which in this matter must be filed no later than Thursday, February 27, 2020. The Pre-Hearing Statement must be filed with the Division's Santa Fe office at the address above, and should include: the name of the party and the party's attorney; a concise statement of the case; the name(s) of the witness(es) the party will call to testify at the hearing; the approximate amount of time the party will need to present the party's case; and an identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to me.

Thank you for your attention to this matter.

Very truly you

Dana S. Hardy

Case No. 21118 FAE II OPERATING Exhibit #5

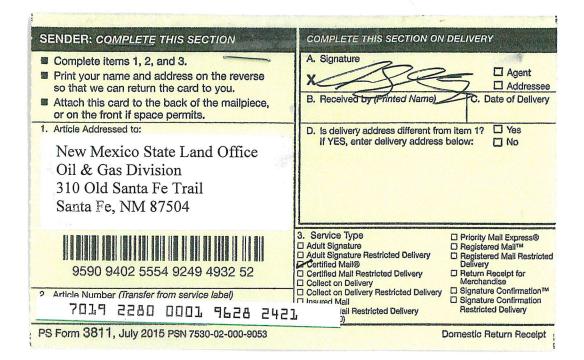
Enclosure

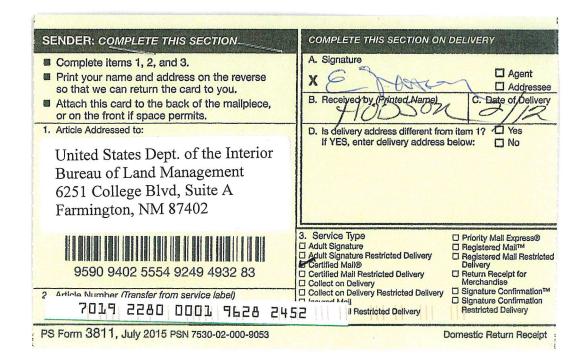
PO BOX 10 ROSWELL, NEW MEXICO 88202 575-622-6510 (FAX) 575-623-9332

PO BOX 1720 ARTESIA, NEW MEXICO 88211 575-622-6510 (FAX) 575-746-6316

PO BOX 2068 SANTA FE, NEW MEXICO 87504 505-982-4554 (FAX) 505-982-8623

7601 JEFFERSON ST NE · SUITE 180 ALBUQUERQUE, NEW MEXICO 87109 505-858-8320 (FAX) 505-858-8321





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1000	Return Receipt (hardcopy)       \$
	Postage
50	\$
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2 6102	\$ Sent To Fulfer Oil & Cattle Co. P.O. Box 1224 Jal, NM 88252 City, State, ZiP+4*
	PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



### 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 15, 2020 and ending with the issue dated February 15, 2020.

san //

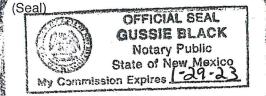
Publisher

Sworn and subscribed to before me this 15th day of February 2020.

ack

**Business Manager** 

My commission expires January 29, 2023



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

#### LEGAL LEGAL

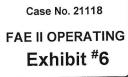
#### LEGAL NOTICE FEBUARY 15, 2020

This is to notify all interested parties, including the Bureau of Land Management, Fulfer Oil & Cattle Company, LLC, Lanexco Incorporated, the New Mexico State Land Office, and their successors and assigns, that the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by FAE II Operating, LLC (Case No. 21118) at 8:15 a.m. on March 5, 2020 in Porter Hall at 1220 South St. Francis Drive, Santa Fe, New Mexico. Applicant seeks authorization to implement the Arnott Ramsey Waterflood Project by injecting produced water into the Seven Rivers Formation. The Project area will be located on State lands and will include 640 acres, more or less, comprised of the Arnott Ramsey Waterflood Project by injecting produced water into the Seven Rivers Formation. The Project area will be located on State lands and will include 640 acres, more or less, comprised of Section 32, Township 25 South, Range 37 East in Lea County. To implement the Project, Applicant proposes to convert its Arnott Ramsay NCT-B #11 well from a producer to an injector. The well is located in Unit L in Section 32. Township 25 South, Range 37 East and will have an injection interval of approximately 3,170 to 3,290 feet. Applicant also proposes to complete the following new injection wells within the Project area: (1) Arnott Ramsay NCT-B #14 well, which will be located in Unit D in Section 32, Township 25 South, Range 37 East and will have an injection interval of approximately 3,100 to 3,300 feet; (2) Arnott Ramsay NCT-B #15 well, which will be located in Unit E in Section 32. Township 25 South, Range 37 East and will have an injection interval of approximately 3,100 to 3,300 feet; (3) Arnott Ramsay NCT-B #16 well, which will be located in Unit G in Section 32, Township 25 South, Range 37 East and will have an injection interval of approximately 3,000 to 3,300 feet; (4) Arnott Ramsay NCT-B #17 well, which will be located in Unit G in Section 32, Township 25 South, Range 37 East and have an injection interval of approximately 3,050 to 3,300 feet; (4) Arnott Ramsay NCT-B #18 well, which will be located in Unit J in Section 32, Township 25 South, Range 37 East and have an injection interval of approximately 3,050 to 3,300 feet; (5) Arnott Ramsay NCT-B #18 well, which will be located in Unit C in Section 32, Township 25 South, Range 37 East and have an injection interval of approximately 3,050 to 3,300 feet; and (6) Arnott Ramsay NCT-B #19 well, which will be located in Unit 1 in Section 32, Township 25 South, Range 37 East and have an injection interval of approximately 3,050 to 3,300 feet. The proposed maximum injection rate for the wells is 800 barrels per day at a maximum injection pressure of approxima

02107475

00239428

HINKLE,HENSLEY,SHANOR & MARTIN,LLP PO BOX 2068 SANTA FE, NM 87504



I hereby certify that I have examined geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the injection zone and any underground sources of drinking water.

Jessica LaMarro

<u>3/1/2020</u> Date

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Case No. 21118

FAE II OPERATING Exhibit #7

# **Imperative Water Analysis Report**



#### SYSTEM IDENTIFICATION

#### WATER CHEMISTRY

V =	Company: Enerves	t Operating LLC	CATIONS		ANIONS	
900	Location: Arnott Ra	imsey Battery	Calcium(as Ca)	227.10	Chloride(as CI)	27100
	Sample Source: Su	rface Equipment Heater	Magnesium(as Mg)	3642	Sulfate(as SO <sub>4</sub> )	6705
	Account Rep: Junio		Barium(as Ba)	0.00	Dissolved CO <sub>2</sub> (as CO <sub>2</sub> )	150.00
			Strontium(as Sr)	0.00	Bicarbonate(as HCO3)	41548
			Sodium(as Na)	29718	H <sub>2</sub> S (as H <sub>2</sub> S)	513.00
			Potassium(as K)	240.20	Boron(as B)	31.41
			Lithium(as Li)	22.56	. ,	
	Sample ID#:	W-21619	Iron(as Fe)	1.67		
		W 21015	Manganese(as Mn)	0.224		
	Sample Date:	02-25-2020				
	Report Date:	02-26-2020	PARAMETERS			
			Temperature( <sup>O</sup> F)	77.00	Sample pH	7.80
			Conductivity	80677	Sp.Gr.(g/mL)	1.030
			<b>D</b>		(3,)	2.000

Resistivity

12.40

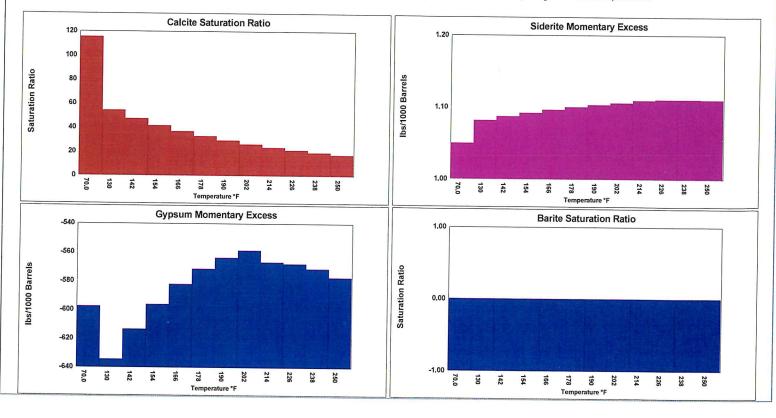
T.D.S.

114643

#### SCALE AND CORROSION POTENTIAL

Press.	С	alcite	An	hydrite	G	/psum	E	Barite	Ce	elestite	Si	derite	Mac	kinawite	<b>CO</b> 2	pCO <sub>2</sub>
(atm)	C	aCO3	C	aSO4	CaSC	04*2H20	В	aSO₄							-	(atm)
1.000	115.27	65.14	0.0751	-780.49	0.116	-597.83		and the second second second second				5				0.505
10.000	54.10	55.49	0.0868	-637.60	0.100	-634.45										
19.000	47.10	49.40	0.0954	-582.18												5.05
28.000	41.37	42.94	0.107	-521.90												9.59
37.000	36.58	37.19	0.123													14.13
46.000	32.56															18.68
55.000																23.22
																27.76
																32.31
		100 Tel 100 Tel 100										1.11	39.45	0.120	0.611	36.85
										-22.81	1248	1.11	30.57	0.116	0.761	41.39
									0.00	-24.21	1186	1.11	23.83	0.112	0.963	45.94
100.000	17.24		0.475		0.115		0.00	-0.292	0.00	-25.78	1126	1.11	18.66	0.107	1.15	50.48
						and a second second second		Lbs per		Lbs per		Lbs per		Lbs per		
	XSAT		XSAT	1000	XSAT	1000	XSAT	1000	XSAT	1000	xSAT	1000	XSAT	1000		
				Barrels		Barrels		Barrels		Barrels		Barrels		Barrels		
	(atm) 1.000 19.000 28.000 37.000 46.000 55.000 64.000 73.000 82.000 91.000	(atm) C 1.000 115.27 10.000 54.10 19.000 47.10 28.000 41.37 37.000 36.58 46.000 32.56 55.000 29.14 64.000 26.18 73.000 23.40 82.000 21.11 91.000 19.07 100.000 17.24 xSAT	(atm)         CaCO3           1.000         115.27         65.14           10.000         54.10         55.49           19.000         47.10         49.40           28.000         41.37         42.94           37.000         36.58         37.19           46.000         32.56         32.35           55.000         29.14         28.29           64.000         26.18         24.90           73.000         23.40         22.28           82.000         21.11         19.83           91.000         19.07         17.74           100.000         17.24         15.94           Lbs per         xSAT         1000           Barrels         24.91	(atm)         CaCO3         C           1.000         115.27         65.14         0.0751           10.000         54.10         55.49         0.0868           19.000         47.10         49.40         0.0954           28.000         41.37         42.94         0.107           37.000         36.58         37.19         0.123           46.000         32.56         32.35         0.143           55.000         29.14         28.29         0.170           64.000         26.18         24.90         0.204           73.000         23.40         22.28         0.246           82.000         21.11         19.83         0.303           91.000         19.07         17.74         0.378           100.000         17.24         15.94         0.475           Lbs per         xSAT         1000         xSAT           Barrels         2000         28.71         1000         XSAT	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	(atm)         CaCO3         CaSO4         CaSO4*2H2O         BaSO4           1.000         115.27         65.14         0.0751         -780.49         0.116         -597.83         0.00         -0.00756           10.000         54.10         55.49         0.0868         -637.60         0.100         -634.45         0.00         -0.0290           19.000         47.10         49.40         0.0954         -582.18         0.103         -613.56         0.00         -0.0472           28.000         41.37         42.94         0.107         -521.90         0.106         -596.30         0.00         -0.0597           46.000         32.56         32.35         0.143         -396.97         0.111         -571.66         0.00         -0.0947           64.000         26.18         24.90         0.204         -278.56         0.114         -558.71         0.00         -0.119           73.000         23.40         22.28         0.246         -229.71         0.114         -558.71         0.00         -0.151           82.000         21.11         19.83         0.303         -179.96         0.115         -567.88         0.00         -0.189           91.000         19.	(atm)         CaCO3         CaSO4         CaSO4*2H2O         BasCo4         CaSO4*2H2O         BasCo4         CaSO4*2H2O         BasCo4         CaSO4*2H2O         BasCo4*2H2O         BasTels         Bastels <td>(atm)<math>CaCO_3</math><math>CaSO_4</math><math>CaSO_4^*2H_2O</math><math>BaSO_4</math><math>SrSO_4</math>1.000115.2765.140.0751-780.490.116-597.830.00-0.007560.00-14.4710.00054.1055.490.0868-637.600.100-634.450.00-0.02900.00-15.8719.00047.1049.400.0954-582.180.103-613.560.00-0.03710.00-16.3728.00041.3742.940.107-521.900.106-596.300.00-0.05970.00-17.5846.00032.5632.350.143-396.970.111-571.660.00-0.09470.00-18.3255.00029.1428.290.170-336.260.113-563.830.00-0.09470.00-19.1564.00026.1824.900.204-278.560.114-558.710.00-0.1190.00-20.0873.00023.4022.280.246-229.710.114-566.900.00-0.1190.00-21.5682.00021.1119.830.303-179.960.115-57.880.00-0.2350.00-22.8191.00019.0717.740.378-134.930.115-571.390.00-0.2250.00-25.78Lbs perLbs perLbs perLbs perLbs perLbs perLbs perLbs perLbs perLbs per100.0017.2415.940.475<td< td=""><td>(atm)         CaCO3         CaSO4         CaSO4*2H2O         BaSO4         SrSO4         F           1.000         115.27         65.14         0.0751         -780.49         0.116         -597.83         0.00         -0.00756         0.00         -14.47         2475           10.000         54.10         55.49         0.086         -637.60         0.100         -634.45         0.00         -0.0290         0.00         -15.87         1872           19.000         47.10         49.40         0.0954         -582.18         0.103         -613.56         0.00         -0.0290         0.00         -16.37         1772           28.000         41.37         42.94         0.107         -521.90         0.106         -596.30         0.00         -0.0472         0.00         -16.94         1684           37.000         36.58         37.19         0.123         -459.37         0.109         -582.36         0.00         -0.0597         0.00         -17.58         1603           46.000         32.56         32.35         0.143         -396.97         0.111         -571.66         0.00         -0.0947         0.00         -18.32         1530           55.000         29.14</td><td>(atm)         CaCO3         CaSO4         CaSO4*2H2O         Bance         Screet         Siderite           1.000         115.27         65.14         0.0751         -780.49         0.116         -597.83         0.00         -0.00756         0.00         -14.47         2475         1.05           10.000         54.10         55.49         0.086         -637.60         0.100         -634.45         0.00         -0.0290         0.00         -15.87         1872         1.08           19.000         47.10         49.40         0.0954         -582.18         0.103         -613.56         0.00         -0.0371         0.00         -16.37         1772         1.09           28.000         41.37         42.94         0.107         -521.90         0.106         -596.30         0.00         -0.0472         0.00         -16.37         1772         1.09           37.000         36.58         37.19         0.123         -459.37         0.109         -582.36         0.00         -0.0754         0.00         -18.32         1530         1.10           46.000         32.56         32.35         0.143         -396.97         0.111         -571.66         0.00         -0.0947         0.00</td></td<><td>(atm)         CaCO3         CaSO4         CaSO4*2H2O         Bante         SrSO4         FeCO3           1.000         115.27         65.14         0.0751         -780.49         0.116         -597.83         0.00         -0.00756         0.00         -14.47         2475         1.05         1960           10.000         54.10         55.49         0.0868         -637.60         0.100         -634.45         0.00         -0.0290         0.00         -15.87         1872         1.08         302.61           19.000         47.10         49.40         0.0954         -582.18         0.103         -613.56         0.00         -0.0371         0.00         -16.37         1772         1.09         219.51           28.000         41.37         42.94         0.107         -521.90         0.106         -596.30         0.00         -0.0472         0.00         -16.94         1684         1.09         161.50           37.000         36.58         37.19         0.123         -459.37         0.109         -582.36         0.00         -0.0754         0.00         -18.32         1530         1.10         90.58           55.000         29.14         28.29         0.170         -336.26</td><td>(atm)CaCO3CaSO4CaSO4*2H2OBaSO4SrSO4FeCO3FeS1.000115.2765.140.0751-780.490.116-597.830.00-0.007560.00-14.4724751.0519600.14810.00054.1055.490.0868-637.600.100-634.450.00-0.007560.00-15.8718721.08302.610.14019.00047.1049.400.0954-582.180.103-613.560.00-0.03710.00-16.3717721.09219.510.13828.00041.3742.940.107-521.900.106-596.300.00-0.04720.00-16.9416841.09161.500.13637.00036.5837.190.123-459.370.109-582.360.00-0.07540.00-17.5816031.10120.250.13446.00032.5632.350.143-396.970.111-571.660.00-0.09470.00-18.3215301.1090.580.13155.00029.1428.290.170-336.260.113-563.830.00-0.09470.00-15.1514601.1068.900.12864.00026.1824.900.204-278.560.114-558.710.00-1190.00-20.0813951.1152.860.12573.00023.4022.280.246-22.9710.114-566.900.00</td><td>chance       restrict       restrint       restrict</td></td>	(atm) $CaCO_3$ $CaSO_4$ $CaSO_4^*2H_2O$ $BaSO_4$ $SrSO_4$ 1.000115.2765.140.0751-780.490.116-597.830.00-0.007560.00-14.4710.00054.1055.490.0868-637.600.100-634.450.00-0.02900.00-15.8719.00047.1049.400.0954-582.180.103-613.560.00-0.03710.00-16.3728.00041.3742.940.107-521.900.106-596.300.00-0.05970.00-17.5846.00032.5632.350.143-396.970.111-571.660.00-0.09470.00-18.3255.00029.1428.290.170-336.260.113-563.830.00-0.09470.00-19.1564.00026.1824.900.204-278.560.114-558.710.00-0.1190.00-20.0873.00023.4022.280.246-229.710.114-566.900.00-0.1190.00-21.5682.00021.1119.830.303-179.960.115-57.880.00-0.2350.00-22.8191.00019.0717.740.378-134.930.115-571.390.00-0.2250.00-25.78Lbs perLbs perLbs perLbs perLbs perLbs perLbs perLbs perLbs perLbs per100.0017.2415.940.475 <td< td=""><td>(atm)         CaCO3         CaSO4         CaSO4*2H2O         BaSO4         SrSO4         F           1.000         115.27         65.14         0.0751         -780.49         0.116         -597.83         0.00         -0.00756         0.00         -14.47         2475           10.000         54.10         55.49         0.086         -637.60         0.100         -634.45         0.00         -0.0290         0.00         -15.87         1872           19.000         47.10         49.40         0.0954         -582.18         0.103         -613.56         0.00         -0.0290         0.00         -16.37         1772           28.000         41.37         42.94         0.107         -521.90         0.106         -596.30         0.00         -0.0472         0.00         -16.94         1684           37.000         36.58         37.19         0.123         -459.37         0.109         -582.36         0.00         -0.0597         0.00         -17.58         1603           46.000         32.56         32.35         0.143         -396.97         0.111         -571.66         0.00         -0.0947         0.00         -18.32         1530           55.000         29.14</td><td>(atm)         CaCO3         CaSO4         CaSO4*2H2O         Bance         Screet         Siderite           1.000         115.27         65.14         0.0751         -780.49         0.116         -597.83         0.00         -0.00756         0.00         -14.47         2475         1.05           10.000         54.10         55.49         0.086         -637.60         0.100         -634.45         0.00         -0.0290         0.00         -15.87         1872         1.08           19.000         47.10         49.40         0.0954         -582.18         0.103         -613.56         0.00         -0.0371         0.00         -16.37         1772         1.09           28.000         41.37         42.94         0.107         -521.90         0.106         -596.30         0.00         -0.0472         0.00         -16.37         1772         1.09           37.000         36.58         37.19         0.123         -459.37         0.109         -582.36         0.00         -0.0754         0.00         -18.32         1530         1.10           46.000         32.56         32.35         0.143         -396.97         0.111         -571.66         0.00         -0.0947         0.00</td></td<> <td>(atm)         CaCO3         CaSO4         CaSO4*2H2O         Bante         SrSO4         FeCO3           1.000         115.27         65.14         0.0751         -780.49         0.116         -597.83         0.00         -0.00756         0.00         -14.47         2475         1.05         1960           10.000         54.10         55.49         0.0868         -637.60         0.100         -634.45         0.00         -0.0290         0.00         -15.87         1872         1.08         302.61           19.000         47.10         49.40         0.0954         -582.18         0.103         -613.56         0.00         -0.0371         0.00         -16.37         1772         1.09         219.51           28.000         41.37         42.94         0.107         -521.90         0.106         -596.30         0.00         -0.0472         0.00         -16.94         1684         1.09         161.50           37.000         36.58         37.19         0.123         -459.37         0.109         -582.36         0.00         -0.0754         0.00         -18.32         1530         1.10         90.58           55.000         29.14         28.29         0.170         -336.26</td> <td>(atm)CaCO3CaSO4CaSO4*2H2OBaSO4SrSO4FeCO3FeS1.000115.2765.140.0751-780.490.116-597.830.00-0.007560.00-14.4724751.0519600.14810.00054.1055.490.0868-637.600.100-634.450.00-0.007560.00-15.8718721.08302.610.14019.00047.1049.400.0954-582.180.103-613.560.00-0.03710.00-16.3717721.09219.510.13828.00041.3742.940.107-521.900.106-596.300.00-0.04720.00-16.9416841.09161.500.13637.00036.5837.190.123-459.370.109-582.360.00-0.07540.00-17.5816031.10120.250.13446.00032.5632.350.143-396.970.111-571.660.00-0.09470.00-18.3215301.1090.580.13155.00029.1428.290.170-336.260.113-563.830.00-0.09470.00-15.1514601.1068.900.12864.00026.1824.900.204-278.560.114-558.710.00-1190.00-20.0813951.1152.860.12573.00023.4022.280.246-22.9710.114-566.900.00</td> <td>chance       restrict       restrint       restrict</td>	(atm)         CaCO3         CaSO4         CaSO4*2H2O         BaSO4         SrSO4         F           1.000         115.27         65.14         0.0751         -780.49         0.116         -597.83         0.00         -0.00756         0.00         -14.47         2475           10.000         54.10         55.49         0.086         -637.60         0.100         -634.45         0.00         -0.0290         0.00         -15.87         1872           19.000         47.10         49.40         0.0954         -582.18         0.103         -613.56         0.00         -0.0290         0.00         -16.37         1772           28.000         41.37         42.94         0.107         -521.90         0.106         -596.30         0.00         -0.0472         0.00         -16.94         1684           37.000         36.58         37.19         0.123         -459.37         0.109         -582.36         0.00         -0.0597         0.00         -17.58         1603           46.000         32.56         32.35         0.143         -396.97         0.111         -571.66         0.00         -0.0947         0.00         -18.32         1530           55.000         29.14	(atm)         CaCO3         CaSO4         CaSO4*2H2O         Bance         Screet         Siderite           1.000         115.27         65.14         0.0751         -780.49         0.116         -597.83         0.00         -0.00756         0.00         -14.47         2475         1.05           10.000         54.10         55.49         0.086         -637.60         0.100         -634.45         0.00         -0.0290         0.00         -15.87         1872         1.08           19.000         47.10         49.40         0.0954         -582.18         0.103         -613.56         0.00         -0.0371         0.00         -16.37         1772         1.09           28.000         41.37         42.94         0.107         -521.90         0.106         -596.30         0.00         -0.0472         0.00         -16.37         1772         1.09           37.000         36.58         37.19         0.123         -459.37         0.109         -582.36         0.00         -0.0754         0.00         -18.32         1530         1.10           46.000         32.56         32.35         0.143         -396.97         0.111         -571.66         0.00         -0.0947         0.00	(atm)         CaCO3         CaSO4         CaSO4*2H2O         Bante         SrSO4         FeCO3           1.000         115.27         65.14         0.0751         -780.49         0.116         -597.83         0.00         -0.00756         0.00         -14.47         2475         1.05         1960           10.000         54.10         55.49         0.0868         -637.60         0.100         -634.45         0.00         -0.0290         0.00         -15.87         1872         1.08         302.61           19.000         47.10         49.40         0.0954         -582.18         0.103         -613.56         0.00         -0.0371         0.00         -16.37         1772         1.09         219.51           28.000         41.37         42.94         0.107         -521.90         0.106         -596.30         0.00         -0.0472         0.00         -16.94         1684         1.09         161.50           37.000         36.58         37.19         0.123         -459.37         0.109         -582.36         0.00         -0.0754         0.00         -18.32         1530         1.10         90.58           55.000         29.14         28.29         0.170         -336.26	(atm)CaCO3CaSO4CaSO4*2H2OBaSO4SrSO4FeCO3FeS1.000115.2765.140.0751-780.490.116-597.830.00-0.007560.00-14.4724751.0519600.14810.00054.1055.490.0868-637.600.100-634.450.00-0.007560.00-15.8718721.08302.610.14019.00047.1049.400.0954-582.180.103-613.560.00-0.03710.00-16.3717721.09219.510.13828.00041.3742.940.107-521.900.106-596.300.00-0.04720.00-16.9416841.09161.500.13637.00036.5837.190.123-459.370.109-582.360.00-0.07540.00-17.5816031.10120.250.13446.00032.5632.350.143-396.970.111-571.660.00-0.09470.00-18.3215301.1090.580.13155.00029.1428.290.170-336.260.113-563.830.00-0.09470.00-15.1514601.1068.900.12864.00026.1824.900.204-278.560.114-558.710.00-1190.00-20.0813951.1152.860.12573.00023.4022.280.246-22.9710.114-566.900.00	chance       restrict       restrint       restrict

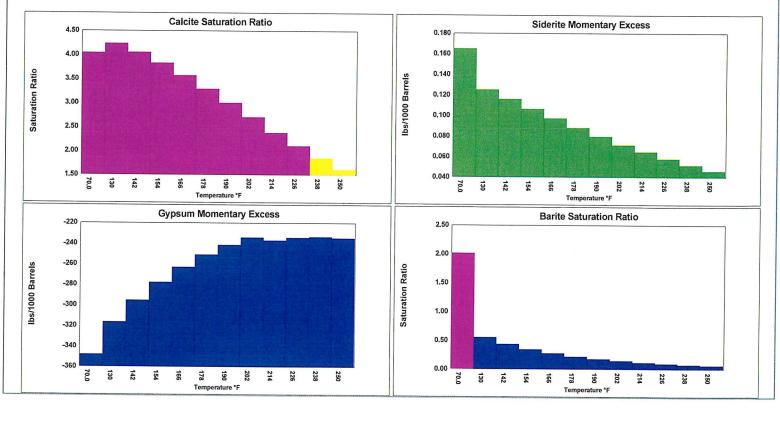
Saturation Ratios (xSAT) are the ratio of ion activity to solubility, e.g. {Ca}{CO<sub>3</sub>}/K<sub>sp</sub>. pCO<sub>2</sub> (atm) is the partial pressure of CO<sub>2</sub> in the gas phase. Lbs/1000 Barrels scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.

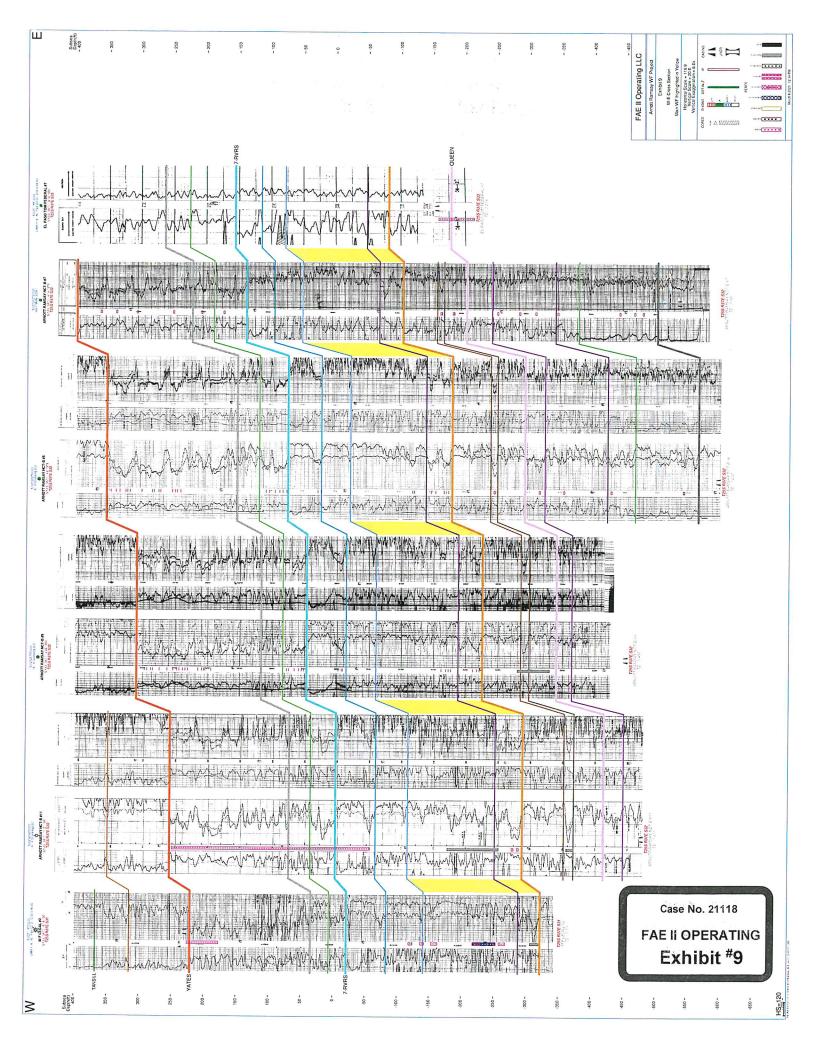


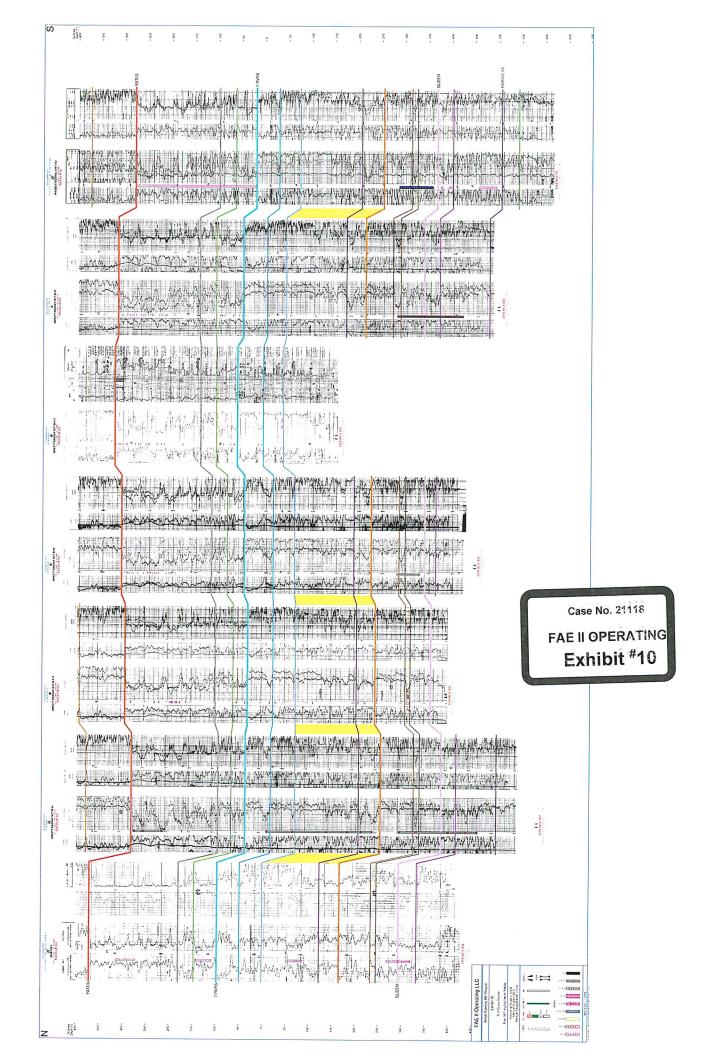
# **Imperative Water Analysis Report**

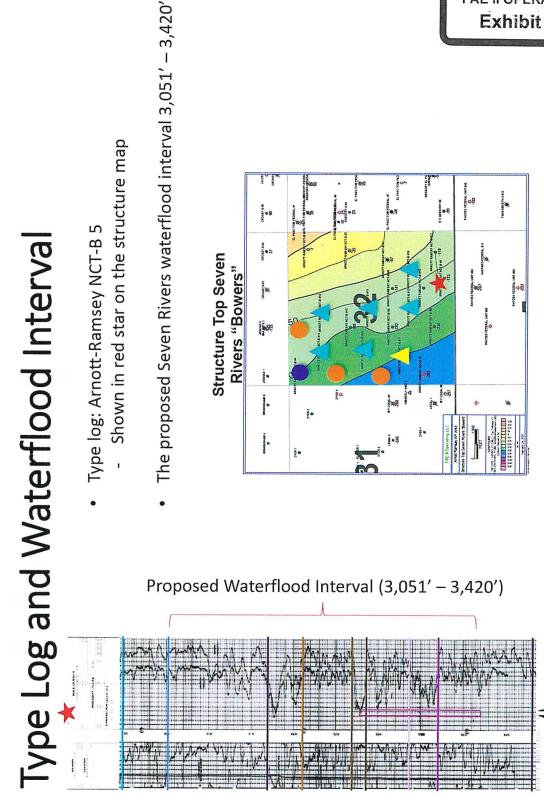
			SYS	TEM IDE	NTIFICATI	DN				WATER	CHEMISTR	Y					
сне: 201 W	VER A Weak Street, 4 Midland, TX 79	TNERS Suite 900	Loc San	ation: Kin ple Sour	Ifield Logis n SWD ce: Tank Pr : Junior Ga	roduced \	Vater			Magn Bariur Stroni Sodiu Potas	IS Im(as Ca) esium(as M n(as Ba) cium(as Sr) m(as Na) sium(as K) m(as Li)	31 31 32 83	3483 24.20 0.675 03.30 44727 13.80 19.88	Sulfat Dissol Bicarb	de(as Cl) e(as SO <sub>4</sub> ) ved CO <sub>2</sub> (a onate(as H as H <sub>2</sub> S)		61500 410.00 260.00 488.80 58.00 65.55
			Sam	nple ID#:		W-2160	7			Iron(a Mang	is Fe) anese(as M		22.34 ).254				
				nple Date ort Date:	:	02-25-2 02-26-2				PARAME Tempo Condu	erature( <sup>O</sup> F)		77.00 7102	Sampl Sp.Gr.	(g/mL)		6.68 1.070
SCALE A	ND CORRO	SION PO	TENTIAL							Resist	ivity		8.54	T.D.S.			107953
Temp.			alcite		hydrite		/psum		arite		lestite	Si	derite	Mac	kinawite	CO <sub>2</sub>	pCO <sub>2</sub>
( <sup>0</sup> F) 70.00	(atm) 1.000		aCO3		aSO4		)4*2H2O		aSO4		rSO4		eCO3		FeS	(mpy)	(atm)
130.00	10.000	4.04 4.23	0.112 0.0846	0.153 0.195	-489.43 -332.37	0.230	-348.39	2.01	0.215	0.583	-54.11	25.16	0.165	100.42	2.23	0.0502	0.0608
142.00	19.000	4.05	0.0772	0.216	-287.37	0.225	-316.70 -295.59	0.546 0.430	-0.354 -0.564	0.552	-55.64 -57.42	39.17 40.50	0.125	38.65	2.00	0.286	0.608
154.00	28.000	3.82	0.0695	0.244	-241.73	0.241	-295.59	0.340	-0.823	0.539	-57.42	40.50	0.116 0.106	31.47 25.45	1.95 1.89	0.326 0.386	1.16
166.00	37.000	3.57	0.0618	0.281	-197.42	0.248	-263.16	0.271	-1.14	0.509	-61.94	41.35	0.100	20.45	1.89	0.386	1.70 2.25
178.00	46.000	3.29	0.0541	0.329	-155.98	0.254	-251.13	0.217	-1.52	0.493	-64.72	40.90	0.0879	16.33	1.75	0.427	2.80
190.00	55.000	2.99	0.0467	0.390	-118.36	0.258	-241.54	0.174	-1.99	0.476	-67.90	39.95	0.0792	12.98	1.67	0.224	3.34
202.00	64.000	2.70	0.0397	0.469	-85.07	0.261	-234.21	0.140	-2.56	0.458	-71.50	38.60	0.0711	10.28	1.58	0.192	3.89
214.00	73.000	2.38	0.0332	0.563	-59.07	0.260	-237.03	0.112	-3.30	0.433	-78.07	36.42	0.0645	7.85	1.46	0.241	4.44
226.00	82.000	2.10	0.0269	0.690	-33.95	0.260	-234.33	0.0907	-4.15	0.413	-82.95	34.46	0.0576	6.17	1.35	0.298	4.99
238.00	91.000	1.85	0.0210	0.856	-12.78	0.260	-233.52	0.0737	-5.16	0.394	-88.36	32.38	0.0514	4.84	1.23	0.363	5.53
250.00	100.000	1.61	0.0155	1.07	4.78	0.258	-234.69	0.0600	-6.37	0.374	-94.46	30.21	0.0458	3.79	1.09	0.422	6.08
		<u></u>	Lbs per		Lbs per		Lbs per		Lbs per		Lbs per		Lbs per		Lbs per		
		xSAT	1000	xSAT	1000	xSAT	1000	xSAT	1000	xSAT	1000	XSAT	1000	xSAT	1000		
	Sa	turation 6	Barrels Ratios (xSA	T) are the	Barrels	n activity	Barrels		Barrels		Barrels		Barrels		Barrels	5	

turation Ratios (xSAT) are the ratio of ion activity to solubility, e.g.  $Ca_{CO_3}/K_{sp.}$  pCO<sub>2</sub> (atm) is the partial pressure of CO<sub>2</sub> in the gas phase. Lbs/1000 Barrels scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.









Case No. 21118 FAE II OPERATING Exhibit #11

> 7255 R37E 532 ARNOTT-RAMSEY NOT-E TD: 3 500

FAE II Operating, LLC conducted a search of New Mexico Oil Conservation Division records and did not identify any open and active releases or incidents related to wells within the Project Area. FAE II Operating, LLC did identify several open incidents involving pipeline facilities that are unrelated to FAE II Operating, LLC's assets or activities within the Project Area.

Case No. 21118

FAE II OPERATING Exhibit #12