

DATE <u>9/14/12</u>	SUSPENSE	ENGINEER <u>W Jones</u>	LOGGED IN <u>9/14/12</u>	TYPE <u>SWD</u>	APP NO <u>PKVR1226154267</u>
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*FINAL*  
*07/10/13*

ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



*R360 Permian Basin LLC*  
*Artesia SWD #1*

### ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

#### Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

#### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

#### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

#### [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

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

Joe B. Rodriguez  
Print or Type Name

Signature

Director Reg Affairs & Develop.  
Title

09/05/2012  
Date

jrodriguez@r360es.com  
e-mail Address

**ARTESIA SWD WELL NO. 1**

**PERMIT APPLICATION**

**Unit A (NE/4, NE/4), Section 7**

**Township 17 South, Range 32 East**

**Lea County, New Mexico**

LAI Project No. 11-0109-03

September 4, 2012

Prepared for:

*ing 8/14/12  
FINAL DATA 1/10/13*

R360 Permian Basin, LLC

16945 Northchase Drive, Suite 2200

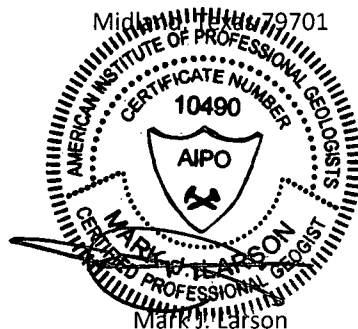
Houston, Texas 77060

Prepared By:

Larson & Associates, Inc.

507 N. Marienfeld Street, Suite 200

Midland, Texas 79701



Certified Professional Geologist No. 10490



September 12, 2012

VIA: FedEx

Mr. Richard Ezeanyim, Bureau Chief  
Engineering and Geological Services Bureau  
New Mexico Oil Conservation Division  
1220 So. St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Commercial SWD Well Application, Artesia SWD #1, R360 Permian Basin LLC, Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Mr. Ezeanyim:

Larson & Associates, Inc., on behalf of R360 Permian Basin LLC (R360), submits the enclosed application to permit, construct and operate a commercial salt water disposal (SWD) well. The well will be located 232 feet FNL and 288 feet FEL in Unit A (NE/4, NE/4) Section 7, Township 17 South and Range 32 East in Lea County, New Mexico. The well will be located on property owned by R360 and will reinject produced and frac water into the Wolfcamp between 8,820' and 10,000'. Notification and a copy of the permit application has been submitted to the NMOCD District 1 office in Hobbs, New Mexico and offset oil & gas lease owners within the area of review (AOR). The offset oil & gas lease owners include Alamo Permian, LLC, Cimarex Energy Co., COG Operating, LLC, Conoco Inc., Hudson Oil Company of Texas, Linn Operating, Inc., Mack Energy Corp. and Tandem Energy Corporation. Please contact Joe B. Rodriguez with R360 at (210) 275-0839 or myself if you have questions.

Sincerely,

**Larson & Associates, Inc.**

A handwritten signature in black ink, appearing to read 'Mark J. Larson', is written over a circular stamp or seal.

Mark J. Larson, P.G.

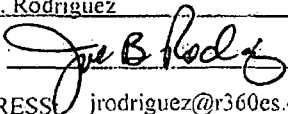
Mark@laenvironmental.com

Encl.

Cc: Ms. Donna Mull – OCD District 1  
Mr. Joe B. Rodriguez – R360

RECEIVED OCD  
2012 SEP 14 A 10:25

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage  
Application qualifies for administrative approval? Yes No
- II. OPERATOR: R360 Permian Basin, LLC  
ADDRESS: 16945 Northchase drive, Suite 2200, Houston, Texas 77060  
CONTACT PARTY: Joe B. Rodriguez PHONE: (210) 275-0839
- 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.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground 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.
- NAME: Joe B. Rodriguez TITLE: Director Reg Affairs & Development  
SIGNATURE:  DATE: September 5, 2012  
E-MAIL ADDRESS: jrodriguez@r360es.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: \_\_\_\_\_



### III. WELL DATA

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

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

### XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

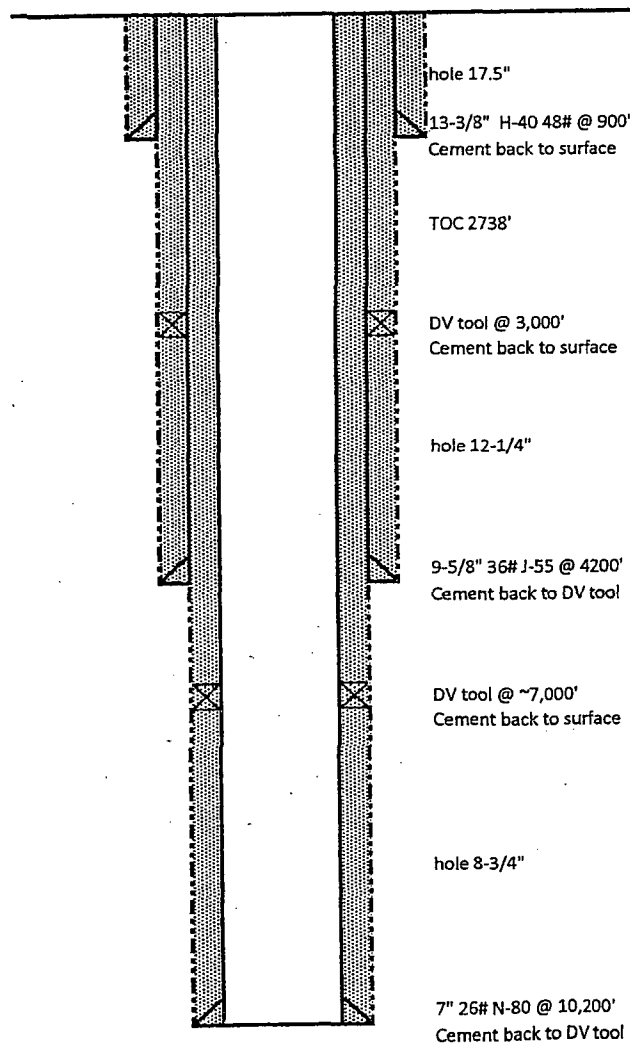
**NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.**

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

**ATTACHMENT III**  
**Injection Well Data Sheet**

## INJECTION WELL DATA SHEET

OPERATOR: R360 Permian Basin, LLCWELL NAME & NUMBER: Artesia SWD Well #1WELL LOCATION: 232 FNL 288 FEL  
FOOTAGE LOCATIONUNIT LETTER ASECTION 7TOWNSHIP 17SRANGE 32EWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 17-1/2" Casing Size: 13-3/8" H-40 48#Cemented with: \_\_\_\_\_ sx. *or* 938 ft<sup>3</sup>Top of Cement: Surface Method Determined: CalculatedIntermediate CasingHole Size: 12-1/4" Casing Size: 9-5/8" J-55 36#Cemented with: \_\_\_\_\_ sx. *or* 1973 ft<sup>3</sup>Top of Cement: Surface Method Determined: CalculatedProduction CasingHole Size: 8-3/4" Casing Size: 7" N-80 26#Cemented with: \_\_\_\_\_ sx. *or* 2300 ft<sup>3</sup>Top of Cement: Surface Method Determined: CalculatedTotal Depth: 10,200'Injection Interval8,820 feet to 10,000 feet

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**Tubing Size: 2-7/8" Lining Material: PlasticType of Packer: TensionPacker Setting Depth: 8,800'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

**Additional Data**

1. Is this a new well drilled for injection? X Yes        No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

2. Name of the Injection Formation: Wolfcamp3. Name of Field or Pool (if applicable): Baish/Wildcat4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

**ATTACHMENT V**  
**Well and Lease Maps**

ARTESIA SWD #1  
R360 Permian Basin, LLC  
Two Mile Radius - Ownership Review

Alamo Permian

Mack Energy

Hudson Oil

Linn Operating

Tandem Energy

Mack Energy

Hudson Oil

Mack Energy

Cimarex

ConocoPhillips

Cimarex

COG Operating

17S 32E

0 3,548  
FEET



# TABLE OF WELLS WITHIN TWO MILES OF PROPOSED R360'S ARTESIA SWD #1

API#	Operator	Lease	Well#	County	Legal
30-015-05019	ALAMO PERMIAN RESOURCES, LLC	CONSTATE	3	EDDY	S:36, T:16S, R:31E
30-015-05021	ALAMO PERMIAN RESOURCES, LLC	HUSTATE	1	EDDY	S:36, T:16S, R:31E
30-015-05014	MACK ENERGY CORP	ROBINSON UNIT	9	EDDY	S:36, T:16S, R:31E
30-015-05033	ALAMO PERMIAN RESOURCES, LLC	HONDO K FEDERAL	1	EDDY	S:1, T:17S, R:31E
30-015-23927	TANDEM ENERGY CORPORATION	ARCO FEDERAL	1	EDDY	S:1, T:17S, R:31E
30-015-23928	TANDEM ENERGY CORPORATION	ARCO FEDERAL	2	EDDY	S:1, T:17S, R:31E
30-015-23556	TANDEM ENERGY CORPORATION	VOLA FEDERAL	1	EDDY	S:1, T:17S, R:31E
30-015-23835	TANDEM ENERGY CORPORATION	VOLA FEDERAL	2	EDDY	S:1, T:17S, R:31E
30-015-24050	TANDEM ENERGY CORPORATION	VOLA FEDERAL	3	EDDY	S:1, T:17S, R:31E
30-015-22981	ALAMO PERMIAN RESOURCES, LLC	STATE BGK	3	EDDY	S:2, T:17S, R:31E
30-015-23375	ALAMO PERMIAN RESOURCES, LLC	STATE BGK	4	EDDY	S:2, T:17S, R:31E
30-015-38367	COG OPERATING LLC	TEX-MACK	214	EDDY	S:2, T:17S, R:31E
30-015-34746	HUDSON OIL COMPANY OF TEXAS	PUCKETT NORTH	1	EDDY	S:12, T:17S, R:31E
30-015-36632	HUDSON OIL COMPANY OF TEXAS	PUCKETT NORTH	2	EDDY	S:12, T:17S, R:31E
30-015-36633	HUDSON OIL COMPANY OF TEXAS	PUCKETT NORTH	3	EDDY	S:12, T:17S, R:31E
30-015-37158	HUDSON OIL COMPANY OF TEXAS	PUCKETT NORTH	4	EDDY	S:12, T:17S, R:31E
30-015-37159	HUDSON OIL COMPANY OF TEXAS	PUCKETT NORTH	5	EDDY	S:12, T:17S, R:31E
30-015-37160	HUDSON OIL COMPANY OF TEXAS	PUCKETT NORTH	6	EDDY	S:12, T:17S, R:31E
30-015-37947	HUDSON OIL COMPANY OF TEXAS	PUCKETT NORTH	8	EDDY	S:12, T:17S, R:31E
30-015-37912	HUDSON OIL COMPANY OF TEXAS	PUCKETT NORTH	10	EDDY	S:12, T:17S, R:31E
30-015-32008	HUDSON OIL COMPANY OF TEXAS	PUCKETT B	37	EDDY	S:13, T:17S, R:31E
30-015-37161	HUDSON OIL COMPANY OF TEXAS	PUCKETT NORTH	7	EDDY	S:13, T:17S, R:31E
30-025-00416	MACK ENERGY CORP	ROBINSON UNIT	5	LEA	S:31, T:16S, R:32E
30-025-00419	MACK ENERGY CORP	ROBINSON UNIT	13	LEA	S:31, T:16S, R:32E
30-025-00425	MACK ENERGY CORP	ROBINSON UNIT	16	LEA	S:31, T:16S, R:32E
30-025-34763	HUDSON OIL COMPANY OF TEXAS	INDIAN TANK	1	LEA	S:32, T:16S, R:32E
30-025-35096	HUDSON OIL COMPANY OF TEXAS	INDIAN TANK	2	LEA	S:32, T:16S, R:32E
30-025-34984	LINN OPERATING, INC.	CASWELL	1	LEA	S:33, T:16S, R:32E
30-025-33033	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	86	LEA	S:4, T:17S, R:32E
30-025-33207	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	79	LEA	S:4, T:17S, R:32E
30-025-33208	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	87	LEA	S:4, T:17S, R:32E
30-025-33298	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	100	LEA	S:4, T:17S, R:32E
30-025-33365	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	88	LEA	S:4, T:17S, R:32E
30-025-33373	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	101	LEA	S:4, T:17S, R:32E
30-025-33381	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	99	LEA	S:4, T:17S, R:32E
30-025-34063	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	127	LEA	S:4, T:17S, R:32E
30-025-34064	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	128	LEA	S:4, T:17S, R:32E
30-025-39495	MACK ENERGY CORP	GRACE MICHELL B FEDERAL	8	LEA	S:5, T:17S, R:32E
30-025-00469	MACK ENERGY CORP	GRACE MITCHELL B	4	LEA	S:5, T:17S, R:32E
30-025-00470	MACK ENERGY CORP	GRACE MITCHELL B	5	LEA	S:5, T:17S, R:32E
30-025-20250	MACK ENERGY CORP	GRACE MITCHELL B	7	LEA	S:5, T:17S, R:32E
30-025-00468	MACK ENERGY CORP		3	LEA	S:5, T:17S, R:32E
30-025-20223	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	29	LEA	S:8, T:17S, R:32E
30-025-39527	MACK ENERGY CORP	PINTAIL FEDERAL	1	LEA	S:8, T:17S, R:32E

# TABLE OF WELLS WITHIN TWO MILES OF PROPOSED R360'S ARTESIA SWD #1

API#	Operator	Lease	Well#	County	Legal
30-025-39399	COG OPERATING LLC	TAYLOR D	2	LEA	S:9, T:17S, R:32E
30-025-39400	COG OPERATING LLC	TAYLOR D	3	LEA	S:9, T:17S, R:32E
30-025-21379	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	43	LEA	S:9, T:17S, R:32E
30-025-00487	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	45	LEA	S:9, T:17S, R:32E
30-025-00481	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	47	LEA	S:9, T:17S, R:32E
30-025-34117	LINN OPERATING, INC.	MALJAMAR GRAYBURG UNIT	103	LEA	S:9, T:17S, R:32E
30-025-00580	CONOCOPHILLIPS COMPANY	MCA UNIT	5	LEA	S:16, T:17S, R:32E
30-025-38620	COG OPERATING LLC	LEAKER CC STATE	11	LEA	S:16, T:17S, R:32E
30-025-38621	COG OPERATING LLC	EDWARD STATE	5	LEA	S:16, T:17S, R:32E
30-025-39934	CIMAREX ENERGY CO. OF COLORADO	JG STATE	6	LEA	S:16, T:17S, R:32E
30-025-39935	CIMAREX ENERGY CO. OF COLORADO	JG STATE	7	LEA	S:16, T:17S, R:32E
30-025-39938	CIMAREX ENERGY CO. OF COLORADO	JG STATE	24	LEA	S:16, T:17S, R:32E
30-025-00598	CONOCOPHILLIPS COMPANY	MCA UNIT	8	LEA	S:17, T:17S, R:32E
30-025-39974	CIMAREX ENERGY CO. OF COLORADO	HT FEDERAL	1	LEA	S:18, T:17S, R:32E
30-025-39975	CIMAREX ENERGY CO. OF COLORADO	HT FEDERAL	5	LEA	S:18, T:17S, R:32E
30-025-39976	CIMAREX ENERGY CO. OF COLORADO	HT FEDERAL	8	LEA	S:18, T:17S, R:32E
30-025-27165	CONOCOPHILLIPS COMPANY	MITCHELL B	20	LEA	S:18, T:17S, R:32E

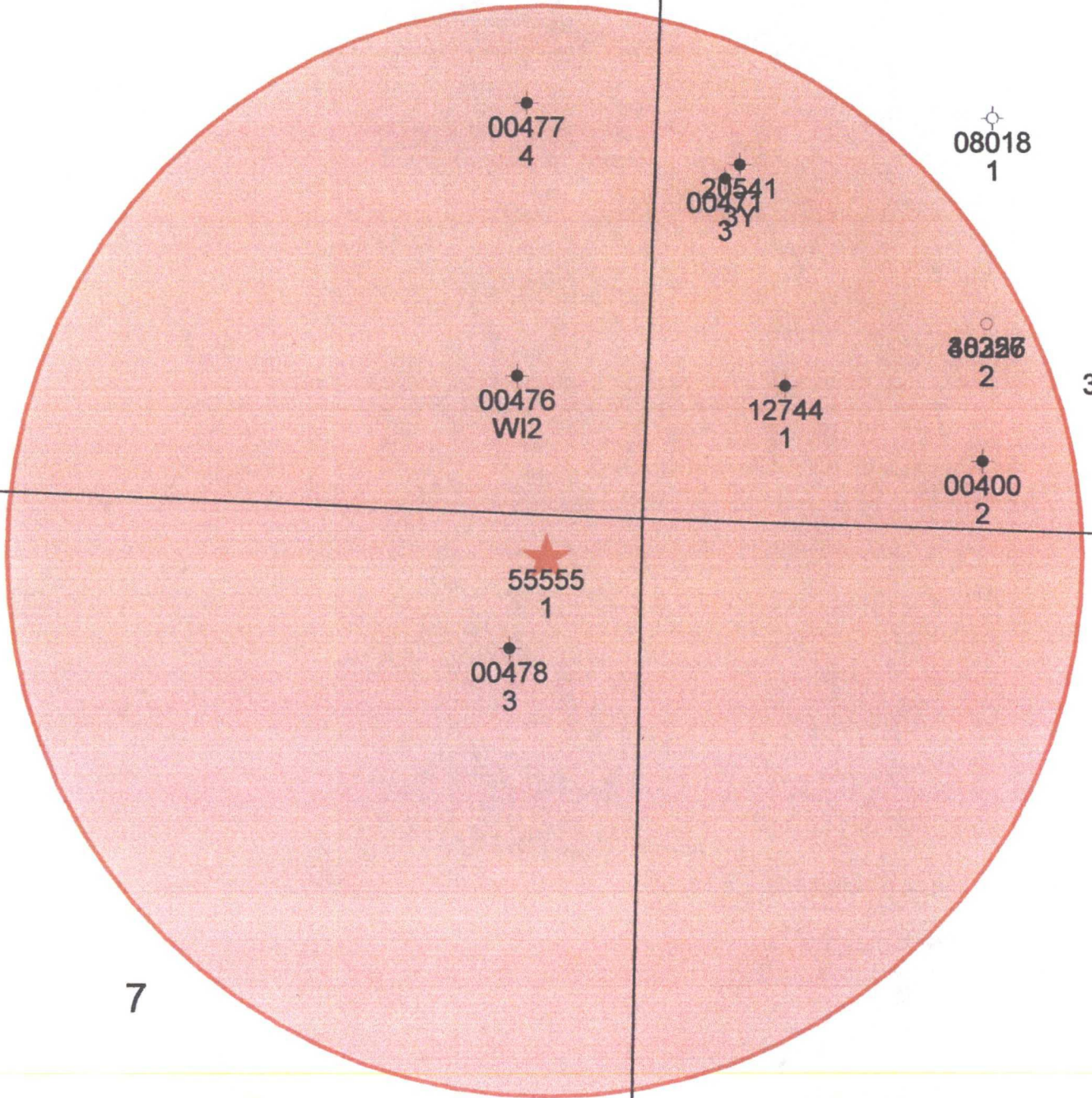


# R360 Permian Basin, LLC ARTESIA SWD #1

## 1/2 Mile Well Review

6

00473  
WI5



7

0 7731  
FEET

**R360 PERMIAN BASIN, LLC**  
**ARTESIA SWD #1**  
**1/2 MILE WELL REVIEW**

API	LEASE NAME	WELL	LOCATION				DATE DRILLED	TD	COMPLETION	STATUS	COMMENTS
30-025-00400	Mitchell	2	330 FSL	1650 FWL	5 17-S	32-E	Aug-59	4124	3777-3850 OH	P&A	POOR RECORDS
30-025-00471	Mitchell	3	1650 FSL	330 FWL	5 17-S	32-E	Dec-48	4007	3775-4007 OH	P&A	Apr-64
30-025-00476	Mitchell	2	660 FSL	660 FEL	6 17-S	32-E	May-40	3974	3715-3974 OH	P&A	Jul-69
30-025-00477			1980 FSL	660 FEL	6 17-S	32-E				P&A	NO RECORDS
30-025-00478	Mitchell	8	650 FNL	690 FEL	7 17-S	32-E	Jan-42	3981	3570-3981 OH	P&A	Jul-69
30-025-12744	Mitchell	1	250 FSL	250 FWL	5 17-S	32-E	Jul-27	4230	2785-4230 OH	P&A	Jul-69
30-025-20541	Mitchell	3X (or 3Y)	1720 FSL	400 FWL	5 17-S	32-E	Feb-64	4040	3748-4002	P&A	Nov-69
30-025-38357	Duck Federal*	2									never drilled
30-025-40226	Duck Federal*	2									never drilled

\* - Two API numbers were generated for this proposed location that was never drilled.

## Well File Search - Select Documents to View

Please click on any thumbnail below in order to view the document. Access to the OCD Internet images does not grant permission to reproduce, disseminate, disclose, or otherwise utilize materials subject to protection of United States copyright or trademark laws. Contact the copyright owner for specific permission to utilize any such materials. Image size and approximate download times are shown below each thumbnail. Download times are based upon a 28.8Kb modem speed.

Clicking the "View All" button below will download a single file containing all documents. "View All" will select only those thumbnails shown in the currently selected API Number. If you wish to select a different API Number, please use the "Go Back" button. "View All" may take several minutes.

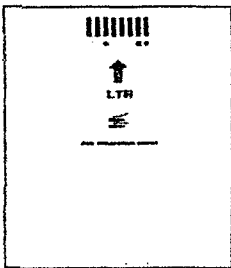
Sort Order: ☒ Ascending ☐ Descending

API Number	ULSTR	Footages
3002500477	I-6-17S-32E	1980 FSL & 660 FEL

Well Name & Number: PRE-ONGARD WELL No. 004

Operator: PRE-ONGARD WELL OPERATOR

**Note:** If you are using Microsoft Internet Explorer and your system does not allow you to open TIFF images from the Internet without saving them first, please contact your administrator. You may be experiencing a problem with the Internet Explorer Cumulative Patch. Please refer to the Microsoft Knowledge Base Article, Q319829, "Cannot Open a Tagged Information File Format (TIFF) File in Internet Explorer", located [here](#).



( 58 Kb ~1 min.)

[View All](#)

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70-025-00400

Company Maljamar  
Farm Name Grace Mitchell Well No. 2  
Land Classification ~~Patented~~ Gov't.  
Sec. 5 Twp. 17 Range 32 County Wes  
Feet from Line: N. 330 S. E. 1650 W.  
Elevation \_\_\_\_\_ Method \_\_\_\_\_  
Contractor Paton Bros. Scout \_\_\_\_\_  
Spudded 2-2-5 Completed 8-12-37 Initial Production \_\_\_\_\_  
Bond Status \_\_\_\_\_

### Casing and Cementing Record

Size	Feet	Inches	Sax Cement
10	740		307
7	340		100

**Gals.**

	Prod.	Date
	Prod.	Date
Top Pay	38621	Total Depth

### SHOOTING RECORD

No. of Quarts	60	Shot at	3777	Feet	3850
No. of Quarts		Shot at		Feet	

Date		Date	
2-21-39	RUST	MAY 3 - 1939	T.D. 3751 L
2-28			Also black down
MAR 1 - 1939	T.V. 43 - R.D.		100% H. 2000 2 hrs
			100% H. 2000 2 hrs
MAR 14 1939	Rail 690 R.P.	5-10	4 2000 L
MAR 21 1939	T.V. 815 R.P.	5/16/39	T.V. 815 R.P.
	Ring 10" 1/2 g.		
MAR 27 1939		5-21-39	φ 3257 L
		5-21	φ 324 L
	Tools		
APR 4 - 1939	T.V. 230 R.P.		37 2000 - 27 L
			7/2 2000 - 45 S
APR 11 1939	φ 1610 X	JUN 7 '39	φ 4001 L
5-1-1939	φ 2520 H		
		6-14	1/2 4000 - 100 S
			5/2 3000 - 4101 L
APR 25 1939	φ 3035 R	JUN 21 '39	φ 4000 L
		6-28	T.D. 1000 10 S
			6-28 1000 10 S
			4091-985

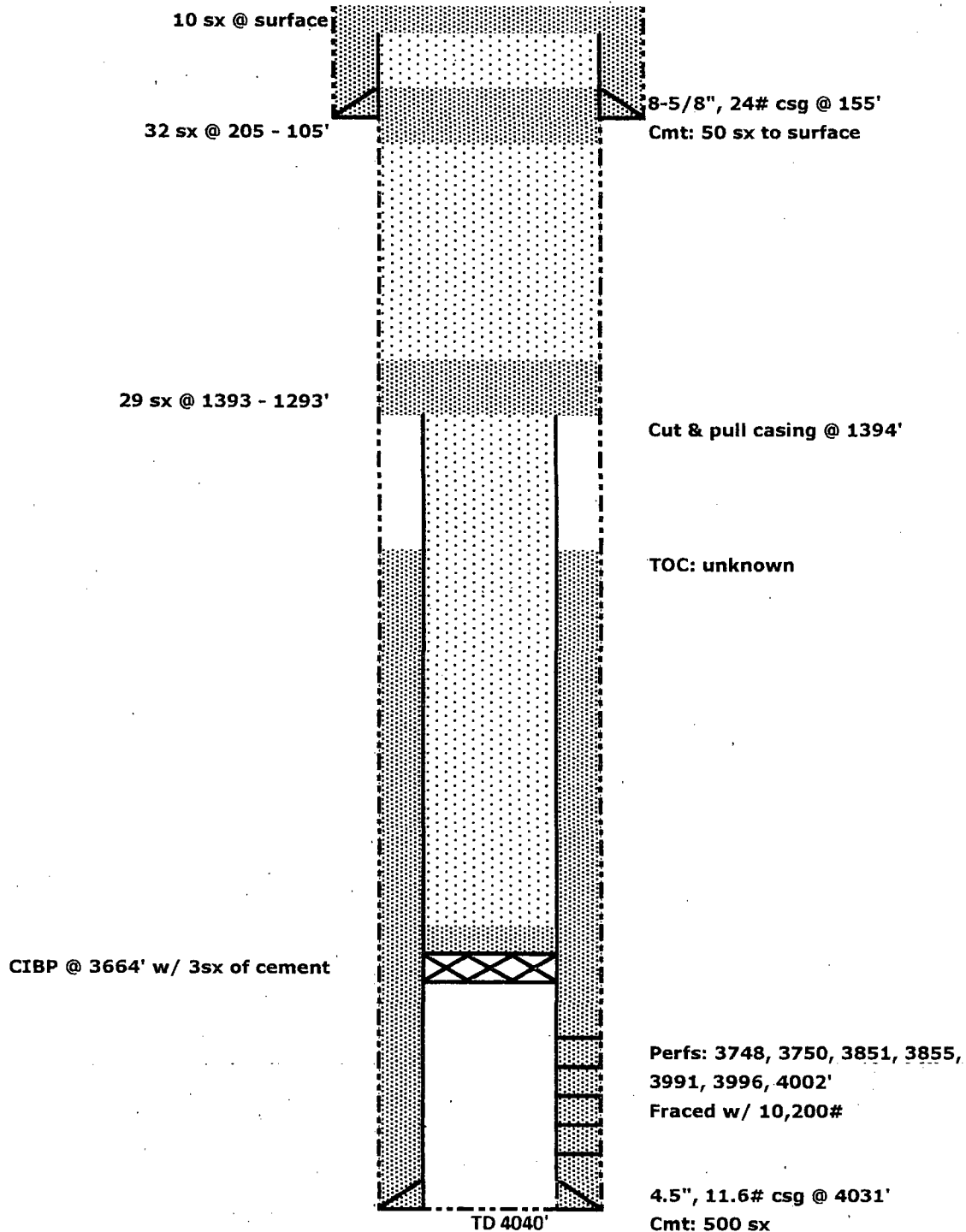
# MITCHELL #3X (or 3Y)

30-025-20541

1720 FSL 400 FWL SECTION 5, T-17-S, R-32-E

LEA COUNTY, NEW MEXICO

P&A JULY, 1969



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TR  
(Other instructions  
reverse side)DATE  
or reForm approved.  
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

LC 058775

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

30 025-20541

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

mitchell

9. WELL NO.

3 Y

10. FIELD AND POOL, OR WILDCAT

Maljamar Gbr SA

11. SEC. T. R. M., OR BLK. AND  
SURVEY OR AREA

5 - 17 - 32

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Ryder Scott Management Company

3. ADDRESS OF OPERATOR

922 - 8th Street, Wichita Falls, Texas 76301

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1720' FSL 400' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

4056' G. L.

12. COUNTY OR PARISH

Lea

13. STATE

N. M.

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).\*

7-16-69 Set cast iron bridge plug at 3664' in 4-1/2" casing with 3 sx cmt on top.  
(Top perforation @ 3746')  
Shot casing at 1394' ; filled hole with mud laden fluid.

Set 29 sx cmt. plug from 1393' to 1293' @ casing stub.  
" 32 " " " 205' to 105' in & out of surface pipe  
" 10 " " " 31' to 0' in top of surface pipe.

Erected 4" metal marker &amp; cleaned location.

Pulled 1400.60' of casing.

18. I hereby certify that the foregoing is true and correct

SIGNED

(This space for Federal or State office use)

TITLE

Agent

DATE

11-19-69

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

MAY 12 1971

ARTHUR R. BROWN  
SECT ENGINEER

DATE

\*See Instructions on Reverse Side



Form approved.  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIE  
(Other instruction  
verse side)

Form approved.  
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

LC 058775

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Mitchell

9. WELL NO.

~~3~~ 3-Y

10. FIELD AND POOL, OR WILDCAT

Gbr SA - Maljamar

11. SEC. T. R. M. OR B.L. AND  
SURVEY OR AREA

5 - 17 - 32

12. COUNTY OR PARISH

Lea

13. STATE  
N. M.

1. OIL  
WELL ☒ GAS  
WELL ☐ OTHER

2. NAME OF OPERATOR

Ryder Scott Management Company

3. ADDRESS OF OPERATOR

922 - 8th Street, Wichita Falls, Texas 76301

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)

At surface

1720' FSL, 400' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4056' G. L.

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

SUBSEQUENT REPORT OF:

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Work will start approximately 7-10-69

Will set bridge plug with cement cap across top of perforations;

100' cement plug in and out of shoe of surface pipe;

10 sack cement plug in top of surface pipe;

cap welded over surface pipe & 4' marker erected showing well number and location;

hole will be filled with mud-laden fluid.

18. I hereby certify that the foregoing is true and correct

SIGNED

*James J. Haley*

TITLE Agent

APPROVED

DATE 7-7-69

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

JUL 14 1969  
ARTHUR R. BROWN  
DISTRICT ENGINEER

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLIC.

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. LC 058775	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG-BACK <input type="checkbox"/> DIFF. RESER. <input type="checkbox"/> Other <input type="checkbox"/>		6. IF INDIAN ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Water-Flood Associates, Inc.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR Box 376, Artesia, N. M.		8. FARM OR LEASE NAME Mitchell	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements): At surface 400' FWL & 1720' FSL, Sec. 5, T17S, R32E. At top prod. interval reported below At total depth		9. WELL NO. 3X	
14. PERMIT NO.		13. STATE N. M.	
15. DATE SPUDDED 1-25-64		18. ELEVATIONS (DF, REE, RT, OR, ETC.)* 4065 RKB	
16. DATE T.D. REACHED 2-7-64		19. ELEV. CASING HEAD 4055	
17. DATE COMPL. (Ready to prod.) 2-19-64		20. TOTAL DEPTH, MD & TVD 4040	
21. PLUG BACK T.D., MD & TVD 4006		22. IF MULTIPLE COMPL. HOW MANY* 1	
23. INTERVALS DRILLED BY A11		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3746-4010 Grayburg	
25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray - Sonic and Laterolog	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)	
29. LINER RECORD		30. TUBING RECORD	
31. PERFORATION RECORD (Interval, size and number) One 1/2" jet @ each of the following: 3748, 3750, 3851, 3855 1/2, 3991, 3993, 3996, & 4002.		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 3748-4002 1000 gallons BDA Acid, 10,000 gallons water, 10,200# Sand, 200# CSP, 200# glass beads.	
33. PRODUCTION DATE FIRST PRODUCTION: 2-20-64 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): Pumping WELL STATUS (Producing or shut-in): Producing		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for fuel	
35. LIST OF ATTACHMENTS Gamma Ray - Sonic & Laterolog logs - Totee's		36. I hereby certify that the foregoing and attached information is complete and correct, as determined from all available records	
SIGNED: Jack Sayers		TITLE: Project Engineer	
DATE: 2-28-64			

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



## INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

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

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

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

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

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

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

### 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH, INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Sand	3746	3752	Oil
"	3849	3858	Oil
"	3990	4010	Oil

### 38.

### GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Metex	3746	
Premier	3849	
San Andres	3862	
Lovington	3990	

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TRANSPORTER	OIL GAS
PRODUCTION OFFICE	
OPERATOR	

# REQUEST FOR (OIL) - (GAS) ALLOWABLE

HOBBINS OFFICE, O. C. O.

New Well  
Sample

MAR 2 8 32 AM '64

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Maljamar, N. M. 2/26/64  
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Water-Flood Associates, Inc., Mitchell, Well No. 3X, in NW 1/4, SW 1/4,  
(Company or Operator) (Lease)

L, Sec. 5, T. 17S, R. 32E, NMPM, Maljamar Pool  
Unit Letter

Lea

Please indicate location:

D	C	B	A
E	F	G	H
L	K	J	I
O	N	O	P

1720/S 400/W  
(FOOTAGE)

Tubing, Casing and Cementing Record

Size	Feet	Size
8-5/8"	155'	50
4-1/2"	4031'	500

County. Date Spudded 1-25-64 Date Drilling Completed 2-7-64  
Elevation 4065 KDB Total Depth 4040 PBD 4006

Top Oil/Gas Pay 3746 Name of Prod. Form. Grayburg

## PRODUCING INTERVAL -

Perforations 3748, 3750, 3851, 3855, 3991, 3993, 3996, 4002.

Open Hole Depth 4040 Depth 3981  
Casing Shoe Tubing

## OIL WELL TEST -

Natural Prod. Test: bbls. oil, bbls water in hrs, min. Size Choke

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): 62 bbls. oil, 12 bbl's water in 24 hrs, 0 min. Size Choke

## GAS WELL TEST -

Natural Prod. Test: MCF/Day; Hours flowed Choke Size

Method of Testing (pitot, back pressure, etc.):

Test After Acid or Fracture Treatment: MCF/Day; Hours flowed

Choke Size Method of Testing:

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 1000 Gal. HDA, Acid, 10,000 gal. Water, 10,200# Sand

Casing Press. 4200 Tubing Press. -- Date first new oil run to tanks 2-20-64

Oil Transporter Continental Pipe Line Co.

Gas Transporter None

Remarks:

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

Approved: 19

Water-Flood Associates, Inc.  
(Company or Operator)

OIL CONSERVATION COMMISSION

By: Jack Sayers (Signature)

By: Engineer District 1  
Title

Title: Project Engineer  
Send Communications regarding well to:  
Name: Water-Flood Associates, Inc.  
Address: Box 376, Artesia, N. M.

**WATER FLOOD ASSOCIATES, INC.**

301 BOOKER BLDG.  
ARTESIA, NEW MEXICO

P. O. BOX 376

HODGES OFFICE O.C.C.

PHONE SH 6-6032

MAR 4 1 44 PM '64

Deviation Survey - Mitchell 3X, Unit L, Sec 5, T17S, R32E,  
Lea County, New Mexico

Depth	Deviation
168	1°
2224	3/4°
2753	1/2°
3109	3/4°
3381	1°
3581	1/2°
3855	3/4°
3946	3/4°

Jack B. Bays

Subscribed and sworn to before me this 4th day of March, 1964.

Jack B. Bays Notary Public for Lea County, State of New Mexico.  
My Commission Expires 2/3/68.

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TRANSPORTER	OIL
	GAS
PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION CO. ION	FORM C-110
SANTA FE, NEW MEXICO	(Rev. 7-60)
<b>CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS</b>	
FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE	

Company or Operator <b>Water-Flood Associates, Inc.</b>				Lease <b>Mitchell</b>		Well No. <b>3X</b>	
Unit Letter <b>L</b>	Section <b>5</b>	Township <b>17S</b>	Range <b>32E</b>	County <b>Lea</b>			
Pool <b>Maljamar Grayburg S.A. Lea</b>				Kind of Lease (State, Fed, Fee) <b>Federal</b>			
If well produces oil or condensate give location of tanks			Unit Letter <b>L</b>	Section <b>5</b>	Township <b>17S</b>	Range <b>32E</b>	
Authorized transporter of oil <input checked="" type="checkbox"/> or condensate <input type="checkbox"/> <b>Continental Pipe Line Company</b>				Address (give address to which approved copy of this form is to be sent) <b>P. O. Box 410 Artesia, New Mexico</b>			
Is Gas Actually Connected? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>							
Authorized transporter of casing head gas <input type="checkbox"/> or dry gas <input type="checkbox"/> <b>None</b>			Date Connected	Address (give address to which approved copy of this form is to be sent)			

If gas is not being sold, give reasons and also explain its present disposition:

**Gas used to run injection plant engine.**

REASON(S) FOR FILING (please check proper box)

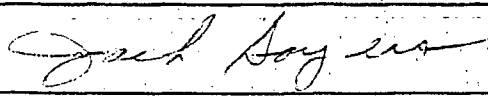

New Well ☒ Change in Ownership ☐  
 Change in Transporter (check one) Other (explain below)  
 Oil ☐ Dry Gas ☐  
 Casing head gas ☐ Condensate ☐

Remarks

**This well is in the Maljamar Water Flood Area**

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 26th day of February, 19 64.

OIL CONSERVATION COMMISSION		By 
Approved by 	Title <b>Project Engineer</b>	
Title <b>Engineer District 1</b>	Company <b>Water-Flood Associates, Inc.</b>	
Date <b>MAR 4 1964</b>	Address <b>P. O. Box 376 Artesia, New Mexico</b>	

Form 9-381a  
(Feb. 1961)

APPROVED

		MAK	2 1964
X		J. L. GORDON	
		ACTING DISTRICT ENGINEER	

(SUBMIT IN TRIPLICATE)

UNITED STATES

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYLand Office Las CrucesLease No. LC 058775Unit I

## SUNDRY NOTICES AND REPORTS ON WELLS

MAR 1 1964

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	Casing Report	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 20

1964

Well No. Mitchell is located 3-X is located 1720 ft. from XN line and 400 ft. from EW line of sec. 5W 1/4 SW 1/4 Sec. 5 175 32E NMPM  
(Or Sec. and Sec. No.) (Twp.) (Range) (Meridian)Maljamar Lea New Mexico  
(Field) (County or Subdivision) (State or Territory)The elevation of the derrick floor above sea level is 4065 ft.

## DETAILS OF WORK

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

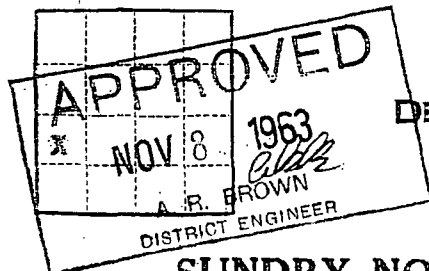
Spudded well Jan. 25, 1964. Ran 155' of 8-5/8" 24# used casing. Set surface @ 164'. Cemented w/50 sx regular neat cement w/2% gel. Circulated cement to surface. Left 20' cement in casing. WOC 12 hours. Tested @ 600 psi for 30 minutes. Held O.K. Drilled 7-7/8" hole to 4040'. Ran Gamma Ray-Sonic log and laterolog. On Feb. 7, 1964 ran 4031' of 4 1/2" 11.6# J-55 casing. Cemented w/500 sx Inco cement w/2% gel and .75% CFR 2. On Feb. 18, 1964 perforated w/1 jet each @ 3748, 3750, 3851, 3855 1/2, 3991, 3993, 3996, and 4002. Spotted 1000 gallons HDA acid over perforations. Frec'd down 4 1/2" casing w/10,000 gallons slick water, 10,200# sand, 200# GSP, and 200# glass beads. Average rate 21.2 B/M.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Water-Flood Associates, Inc.Address P. O. Box 376Artesia, N. M.

By

Jack SayersTitle Project Engineer



(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
NOV 12 10 25 AM '63

Land Office

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HOBBS, NEW MEXICO

## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

GRACE MITCHELL

7 NOVEMBER

1963

Well No. 3-X is located 1720 ft. from NW/4 line and 400 ft. from E/4 line of sec. 5

NW/4 SW/4 Sec. 5

17S

32E

N44W

(1/4 Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

MALJAMAR

LEA

NEW MEXICO

(Field)

(County or Subdivision)

(State or Territory)

The elevation of the derrick floor above sea level is 4066 ft.

## DETAILS OF WORK

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

PLAN TO DRILL TO APPROXIMATELY 1050' TO ENCOUNTER GRAYBURG AND LOVINGTON PAY ZONES. PLAN TO SET 150' 8 5/8" CASING AND CEMENT TO SURFACE. PLAN TO SET 5 1/2" AT T.D. AND CEMENT WITH 200 SX. PLAN TO PERFORATE AND TREAT PAY INTERVALS. THIS IS A REPLACEMENT FOR MITCHELL No. 3 WHICH WILL BE PLUGGED AND ABANDONED.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company WATER FLOOD ASSOCIATES, INC.

Address Box 376

ARTEDIA, NEW MEXICO

By

Title PROJECT ENGINEER

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TRANSPORTER	OIL GAS
PRODUCTION OFFICE	
OPERATOR	

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

FORM C-128  
Revised 5/1/57

NOV 12 10 25 AM '63

## SECTION A

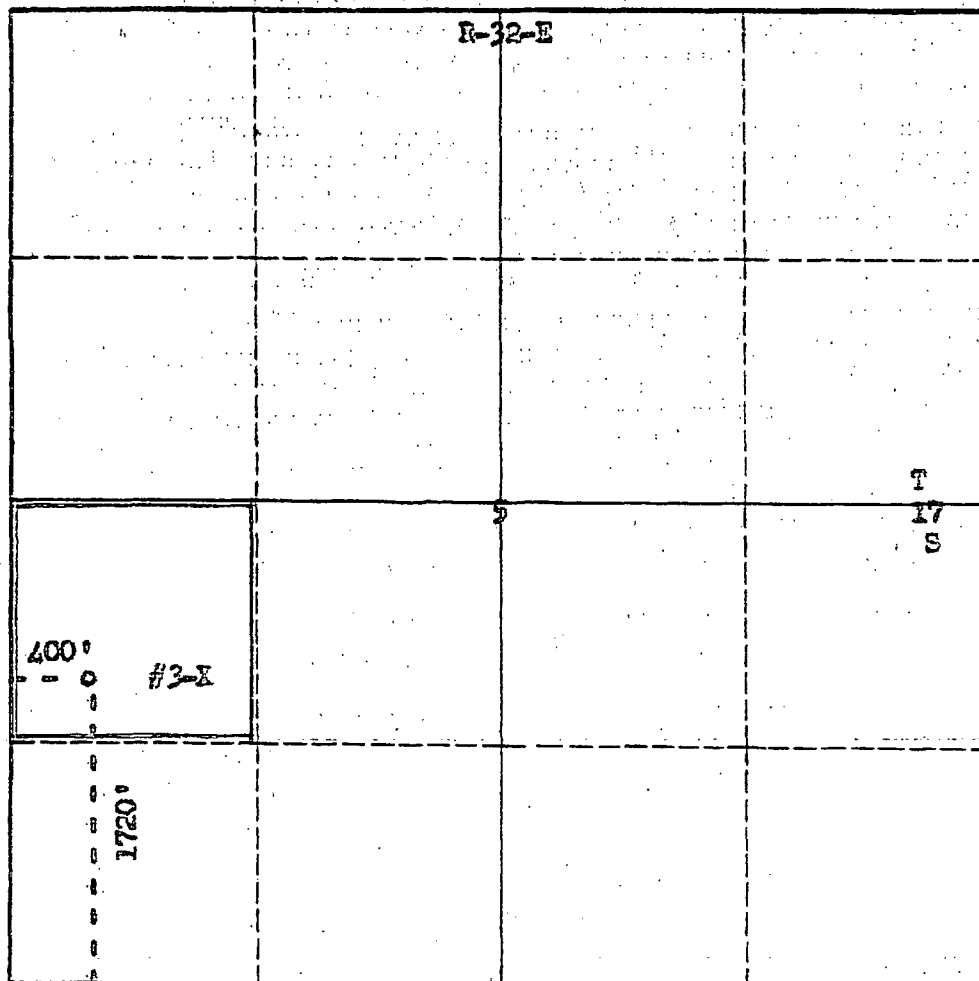
Operator <b>Water-Flood Associates, Inc.</b>			Lease <b>Grace Mitchell</b>			Well No. <b>3-X</b>		
Unit Letter <b>I</b>	Section <b>5</b>	Township <b>T-17-S</b>	Range <b>R-32-E</b>	County <b>Lea</b>				
Actual Footage Location of Well: <b>1720</b> feet from the <b>South</b> line and <b>400</b> feet from the <b>West</b> line								
Ground Level Elev. <b>4056</b>	Producing Formation <b>GRAYBURG SAN ANDRES</b>			Pool <b>MALJAMAR</b>	Dedicated Acreage: <b>40</b> Acres			

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒ NO ☐ ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES ☐ NO ☐ . If answer is "yes," Type of Consolidation \_\_\_\_\_
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

## SECTION B

R-32-E



## CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Name <b>R. C. Bates</b>
Position <b>SUPERINTENDENT</b>
Company <b>WATER FLOOD ASSOCIATES, INC.</b>
Date <b>6 NOVEMBER 1963</b>

I hereby certify that the well location shown on the plat in SECTION B was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed <b>November 6, 1963</b>
Registered Professional Engineer and/or Land Surveyor <b>James H. L. L. L.</b>
Certificate No. <b>542</b>

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500

COUNTY	LEA	FIELD	Maljamar	S. 17 E	N. M.
OPR	WATER FLOOD ASSOCIATES, INC.				MAP
3-X Mitchell, Grace-Federal					
Sec. 5, T-17-S, R-32-E				CO-ORD	
1720' fr S Line & 400' fr W Line of Sec.					
Spudded 1-25-64		CLASS		EL	
Completed 2-20-64		FORMATION	DATUM	FORMATION	DATUM
CSG & SX - TUBING		LOG:			
		Metex 3746			
8 5/8" 155' 50		Prem. 3849			
4 1/2" 4031' 500		SA 3862			
		Lov. Sd.			
		3990			
LOGS EL GR RA IND HC A					
TD 4040', PBD 4006'					

IP Grayburg Perfs 3748-4002' Pmpd 62 BOPD + 12 BW. Pot. Based on 24 hr test.

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CONT.	PROP DEPTH 4050'	TYPE
DATE		

F.R. 11-14-63; Replacement well for #3  
PD 4050' - Grayburg  
3-2-64 TD 4040', PBD 4006', COMPLETED.  
Perf @ 3748', 3750', 3851', 3855½', 3991',  
3993', 3996' & 4002'  
Ac. 1000 gals.  
Frac 10,000 gals wtr + 10,200# sd.  
(Holding for tops)  
3-16-64 TD 4040', PBD 4006', COMPLETED.



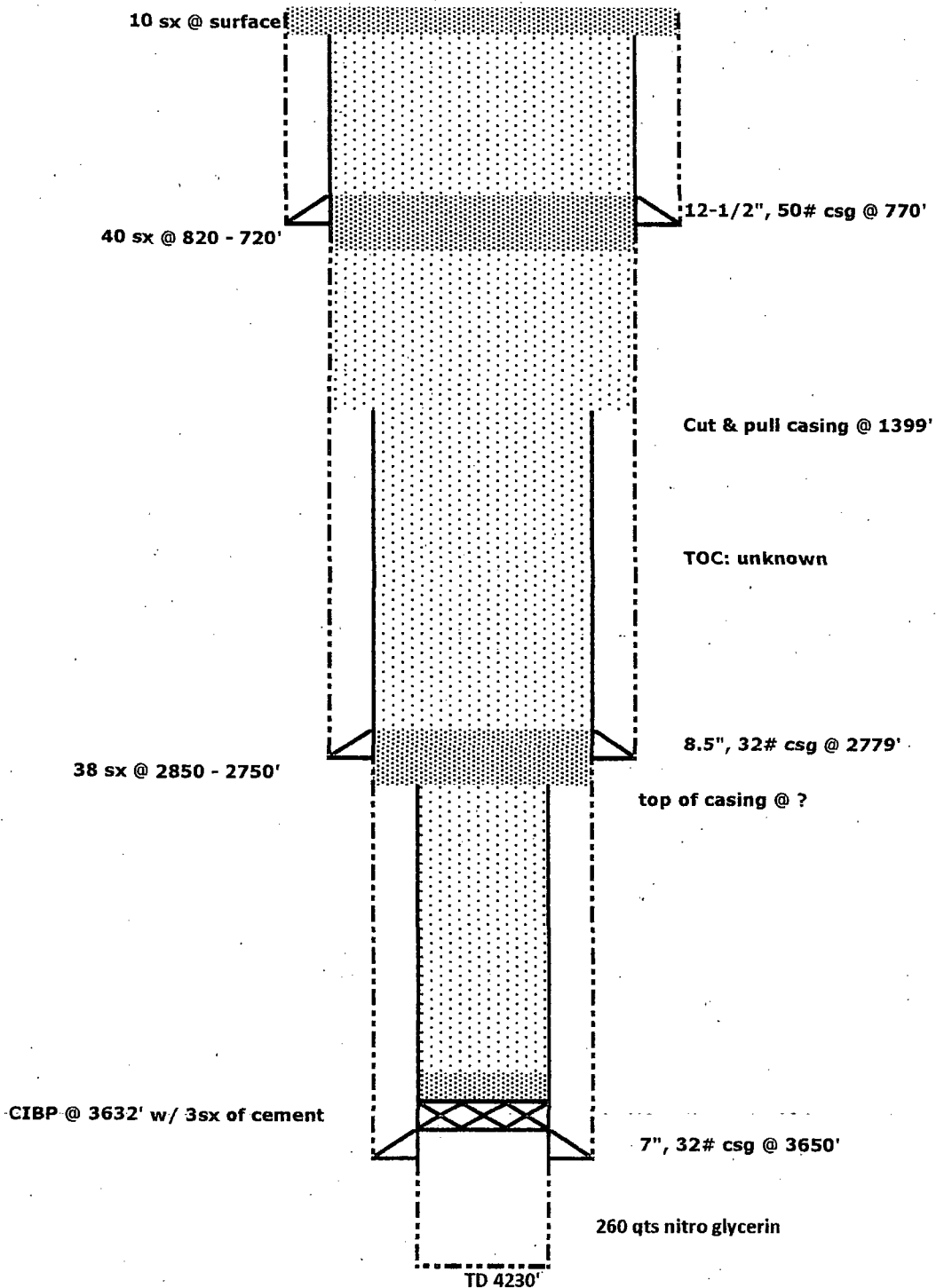
# MITCHELL #1

30-025-12744

250 FSL 250 FWL SECTION 5, T-17-S, R-32-E

LEA COUNTY, NEW MEXICO

P&A JULY, 1969



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SEE INSTRUCTIONS ON REVERSE SIDE

LEASE DESIGNATION  
LC 061134

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Ryder Scott Management Company		7. UNIT AGREEMENT NAME 30-225-12744	
3. ADDRESS OF OPERATOR 922 - 8th Street, Wichita Falls, Texas 76301		8. FARM OR LEASE NAME Mitchell	
4. LOCATION OF WELL. (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 330' FSL & 330' FWL		9. WELL NO. 1	
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT Maljamar Gbr SA	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 4050' G. L.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 5 - 17 - 32	
		12. COUNTY OR PARISH Lea	
		13. STATE N. M.	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

7-17-69: Set cast iron bridge plug at 3632' in 7" csg. with 3 sx cmt on top.  
(7" csg. shoe at 3650') Filled hole with mud laden fluid.  
Shot 8-5/8" csg. at 1620' & 1380'

Set 38 sx cmt. plug from 2850' to 2750' - in & out of csg. shoe  
" 40 " " " 820' to 720' - in & out base of surface pipe.  
" 10 " " " 24' to 0' - in & top of surface pipe.

Erected 4" metal marker; cleaned location.

Pulled 1398.11' of 8-5/8" casing.

18. I hereby certify that the foregoing is true and correct

SIGNED

*James S. Halsey*

TITLE

Agent

DATE 11-19-69

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED

MAY 12 1971

\*See Instructions on Reverse Side

July 1969

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT INSTRUCTIONS  
(Other instructions  
verse side)

5. LEASE DESIGNATION AND SERIAL NO.

LC 061434

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or alter a well to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Mitchell

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Maljamar Gbr. SA

11. SEC., T., R., M., OR ELE. AND  
SURVEY OR AREA

Sec. 5, T-17, R032

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4050' G. L.

12. COUNTY OR PARISH

Lea

13. STATE

N. M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐

PULL OR ALTER CASING

☐

FRACTURE TREAT

☐

MULTIPLE COMPLETE

☐

SHOOT OR ACIDIZE

☐

ABANDON\*

☒

REPAIR WELL

☐

CHANGE PLANS

☐

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐

REPAIRING WELL

☐

FRACTURE TREATMENT

☐

ALTERING CASING

☐

SHOOTING OR ACIDIZING

☐

ABANDONMENT\*

☐

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Work will start about 7-10-69

Set 100' plug at 3600-3700  
Will set bridge plug with cement cap across top of perforations.  
Set 100' plug at 2750-2850  
100' cement plug in and out of shoe of surface pipe; OK

10 sack cement plug in top of surface pipe with cap welded over surface pipe

and 4' marker erected with well number and location; OK

hole will be filled with mud-laden fluid. OK

18. I hereby certify that the foregoing is true and correct

SIGNED

*Robert A. Halsey* TITLE

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

DATE 7-7-69

AS AMENDED  
JUL 14 1969  
ARTHUR G. BROWN  
DISTRICT ENGINEER

\*See Instructions on Reverse Side

OIL CONSERVATION COMMISSION

HOBBS, NEW MEXICO

October 17, 1961

Water Flood Associates, Inc.  
Box 376  
Artesia, New Mexico

Gentlemen:

We are returning the enclosed Forms C-110 indicating a change of ownership from Kennedy Oil Company to Water Flood Associates, Inc. for correction.

Our Santa Fe office has requested that we no longer accept a letter designation after the well number. We will, therefore, appreciate your refiling the forms for the No. 1-A, 2-A and 5-B omitting the letters.

The form for Well No. 4 is being returned in order that you may fill in the location of the tanks.

Yours very truly,

OIL CONSERVATION COMMISSION

Joe D. Ramey  
Proration Manager

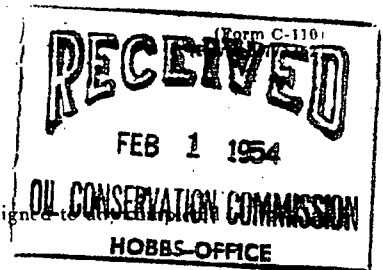
mc  
encl.

C  
O  
P  
Y



NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

It is necessary that Form C-104 be approved before this form can be approved and an initial allowable be assigned to the well. Submit this form in QUADRUPLICATE.



**CERTIFICATE OF COMPLIANCE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS**

Company or Operator..... G. B. Suppes ..... Lease Grace Mitchell

Address..... Artesia, New Mexico ..... Tulsa, Oklahoma  
(Local or Field Office) (Principal Place of Business)

Unit..... M ..... Well(s) No..... 1 ..... Sec. 5 ..... T. 17 ..... R. 32 ..... Pool North Maljamar

County..... Lee ..... Kind of Lease: Federal

If Oil well Location of Tanks..... SW - SW

Authorized Transporter..... Continental Oil Co. ..... Address of Transporter  
..... Artesia, New Mexico ..... Ponca City, Oklahoma  
(Local or Field Office) (Principal Place of Business)

Per cent of Oil or Natural Gas to be Transported 100 ..... Other Transporters authorized to transport Oil or Natural Gas  
from this unit are..... None .....

REASON FOR FILING: (Please check proper box)

NEW WELL..... ☐ CHANGE IN OWNERSHIP..... ☐

CHANGE IN TRANSPORTER..... ☒ OTHER (Explain under Remarks)..... ☐

REMARKS:

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 28 day of Jan. 1954

G. B. Suppes

Approved....., 19.....

OIL CONSERVATION COMMISSION

By..... J. G. Stanley .....

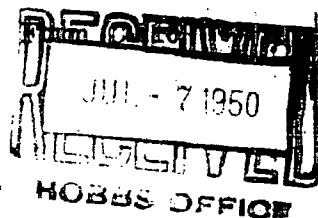
By..... B. E. Kennedy .....

Title..... Drilling Supt .....

Title.....

DUPLICATE

OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO



CERTIFICATE of COMPLIANCE and AUTHORIZATION to TRANSPORT OIL

Company or Operator G. B. Suppes Lease Mitchell  
Address Artesia, New Mexico Tulsa, Oklahoma  
(Local or Field Office) (Principal Place of Business)  
Unit M Wells No. 1 Sec. 5 T. 17 R. 32 Field No. Maljamar County Lea  
Kind of Lease Government Location of Tanks SW $\frac{1}{4}$  SW $\frac{1}{4}$   
Transporter Marchison & Closuit, Inc. Address of Transporter Caspar Bldg., Artesia,  
New Mexico (Local or Field Office)  
Percent of oil to be transported 100. Other transporters author-  
(Principal Place of Business) ized to transport oil from this unit are None %  
REMARKS: This Well was drilled in 1927, and a form C-116 has not been filed  
on this unit until now.

The undersigned certifies that the rules and regulations of the Oil Conservation Commission have been complied with except as noted above and that gathering agent is authorized to transport the percentage of oil produced from the above described property and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Oil Conservation Commission of New Mexico.

Executed this the 1st day of July, 1950

G. B. Suppes

(Company or Operator)

By G. B. Suppes

Title Partner

State of Oklahoma

County of Tulsa

ss.

Before me, the undersigned authority, on this day personally appeared G. B. Suppes known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me, this the 1st day of July, 1950  
My Com. Exp. August 9, 1951

Margaret E. Evans

Oklahoma

Notary Public in and for Tulsa County,

Approved: July - 7 - 1950

OIL CONSERVATION COMMISSION

By Boyd E. Gammough

(See Instructions on Reverse Side)

Notary Public

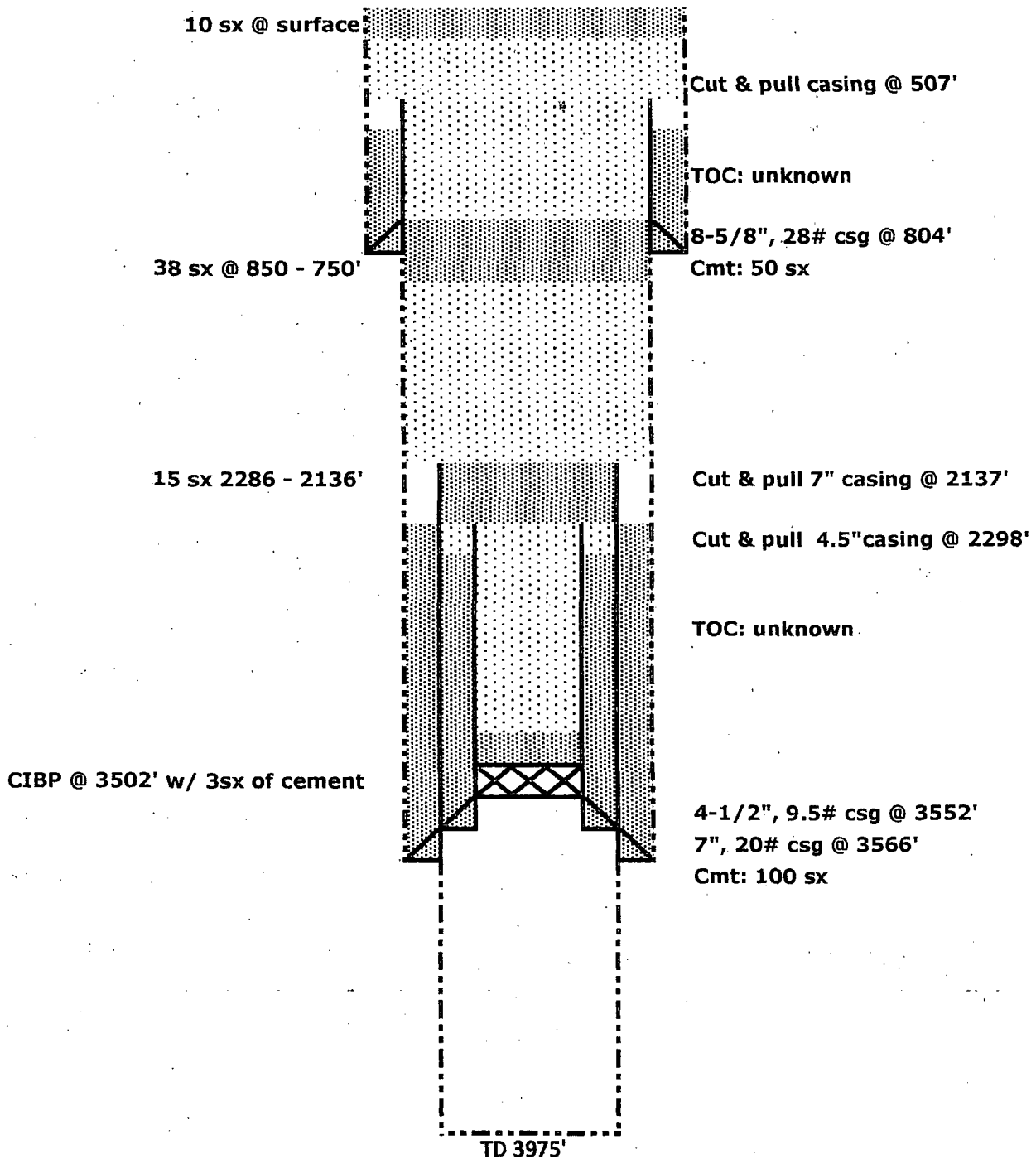
# MITCHELL #8

30-025-00478

650 FNL 690 FEL SECTION 7, T-17-S, R-32-E

LEA COUNTY, NEW MEXICO

P&A JULY, 1969





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLY  
(Other instructions  
verse side)E-  
re-Form approved  
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

LC 061434

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

30-025-00478

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Mitchell

9. WELL NO.

8

10. FIELD AND POOL, OR WILDCAT

Maljamar Gbr SA

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

7 - 17 - 32

12. COUNTY OR PARISH

Lea

13. STATE

N. M.

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Ryder Scott Management Company

3. ADDRESS OF OPERATOR

922 - 8th Street, Wichita Falls, Texas 76301

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

650' FNL 690' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4025' G. L.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

7-16-69. Set cast iron bridge plug at 3502' in 4-1/2" xsg. with 3 sx cmt on plug.  
4-1/2" csg. shoe at 3552'; Shot casing at 2286'

Filled hole with mud-laden fluid.

Set 15 sx cmt. plug from 2286' to 2136'

" 38 " " " 850' to 750' - in &amp; out of surface pipe

" 10 " " " 30' to 0'.

Erected 4" metal marker &amp; cleaned up location.

Pulled 2298.43' of 4-1/2" casing.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Agent

DATE 11-19-69

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

May 1969)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN COPY  
(Other instruction  
verse side)

Budget Bureau No. 42-11421

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. LC 061434	
2. NAME OF OPERATOR Ryder Scott Management Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 922 - 8th Street, Wichita Falls, Texas 76301		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 650' FNL & 690' FEL		8. FARM OR LEASE NAME Mitchell	
14. PERMIT NO.		9. WELL NO. 8	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4025' G. L.		10. FIELD AND POOL, OR WILDCAT Maljamar Gbr. SA	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 7, 17S, 32E	
		12. COUNTY OR PARISH Lea	
		13. STATE N. M.	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Work will start approximately 7-10-69

This is the former Green Bay Co., Mitchell "A" lease #3 which was plugged & abandoned in 1942 & re-entered and completed as a producer in Jan., 1967.

Will set bridge plug with cement cap across top of perforations;  
100' cement plug in and out of shoe of surface pipe;  
10 sack cement plug in top of surface pipe;  
cap welded over surface pipe and 4' marker erected showing well number & location;  
hole to be filled with mud-laden fluid.

*Also 100' plug in slots of 4 1/2" csg.*

18. I hereby certify that the foregoing is true and correct

SIGNED

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

TITLE

Agent

DATE

7-7-69

AS AMENDED  
JUL 14 1969

ANTHONY R. BROWN  
DISTRICT ENGINEER

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other  
instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

LC 061434

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Mitchell

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

Maljamar

11. SEC., T., R., M., OR BLOCK AND SURVEY  
OR AREA

Sec. 7, T17S, R32E

12. COUNTY OR  
PARISH  
Lea

13. STATE

New Mex.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL:

OIL  
WELL ☒

b. TYPE OF COMPLETION:

NEW  
WELL ☐WORK  
OVER ☐DEEP-  
EN ☐PLUG  
BACK ☐DIFF.  
RESVR. ☐

Other

Re-entry of Abandoned  
& Plugged Well

2. NAME OF OPERATOR

Ryder Scott Management Company

3. ADDRESS OF OPERATOR

922 - 8th Street, Wichita Falls, Texas 76301

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface Unit A, 650' FNL &amp; 690' FEL, Sec. 7, T17S, R32E

At top prod. interval reported below same

At total depth same

14. PERMIT NO.

DATE ISSUED

15. DATE SPODDED

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

19. ELEV. CASINGHEAD

See old records. This former Green Bay Co., Mitchell "A" lse., well #3, P &amp; A in 1942

20. TOTAL DEPTH, MD &amp; TVD

21. PLUG, BACK T.D., MD &amp; TVD

22. IF MULTIPLE COMPL.,  
HOW MANY\*23. INTERVALS  
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

25. WAS DIRECTIONAL  
SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	28#	507'-804'		Left in well when	
7"	20#	2137' - 3566'		P & A	
4-1/2"	9.5#	3570'	Thru. 7"	Cement circulated to surface	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	3975	None

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

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

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

Not frac'd

33.\* PRODUCTION

DATE FIRST PRODUCTION

2/8/67

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

Pump

WELL STATUS (Producing or  
shut-in)

Producing

DATE OF TEST

2/8/67

HOURS TESTED

24

CHOKE SIZE

PROD'N. FOR  
TEST PERIOD

OIL—BBL.

27

GAS—MCF.

TSTM

WATER—BBL.

13

GAS-OIL RATIO

FLOW, TUBING PRESS.

CASING PRESSURE

CALCULATED  
24-HOUR RATE

OIL—BBL.

GAS—MCF.

WATER—BBL.

OIL GRAVITY-API (CORR.)

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED

TITLE Agent

DATE 2/13/67

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK Re-enter abandoned & plugged well <del>DRILL</del> <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. LC 061434	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Ryder Scott Management Company			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 922 8th St., Wichita Falls, Texas			8. FARM OR LEASE NAME Mitchell	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface Unit letter A, 650' FNL & 690' FEL, At proposed prod. zone Sec. 7, T 17S, R 32E			9. WELL NO. 3	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*			10. FIELD AND POOL, OR WILDCAT Maljamar	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 650'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 7 - 17S - 32R	
16. NO. OF ACRES IN LEASE 40			12. COUNTY OR PARISH Lea	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40			13. STATE N. M.	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1320			20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4025' G. L.			22. APPROX. DATE WORK WILL START* On approval	
23. PROPOSED CASING AND CEMENTING PROGRAM				

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Abandoned in well	8-5/8"	28#	507'- 804'	
Abandoned in well	7"	20#	2137'-3566'	
To be installed at time of Recompletion	4-1/2"	9.5#	3570'	Sufficient cement to circulate to surface.

Well to be completed as a producer &amp; pumped.

This is the former Green Bay Co., Mitchell "A" Lease, well no. 3, which was plugged  
& abandoned in 1942.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED [Signature] TITLE Agent DATE Dec. 28, 1966  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

APPROVAL DATE

DEC 29 1966

A. H. BROWN  
DISTRICT ENGINEER

DATE \_\_\_\_\_

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PL.

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator <b>Ryder Scott Management Co.</b>		Lease <b>Mitchell</b>		Well No. <b>3-2</b>	
Unit Letter <b>A</b>	Section <b>7</b>	Township <b>T-17-S</b>	Range <b>R-32-E</b>	County <b>Lee</b>	
Actual Footage Location of Well:					
<b>650</b> feet from the <b>North</b> line and		<b>690</b> feet from the <b>East</b> line			
Ground Level Elev. <b>4025</b>	Producing Formation	Pool	Dedicated Acreage: <b>40</b>		Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

**R-32-E**

**650'**  
**690'**

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name  
*John N. Hoff*  
Position  
**Prod. Supv.**

Company  
**Ryder Scott Management Co.**  
Date

**December 13, 1966**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**December 13, 1966**

Registered Professional Engineer and/or Land Surveyor

*James H. Lomas*  
Certificate No.

**542**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

~~CNE-NP~~

**N**

w

### Bond Status

DATE	8-7-40	DATE	
AUG 14	✓	11-6	
11-1	✓	11-15	✓
11-8	✓	11-26	✓
11-15	✓	12-4	✓
11-22	✓	12-11	✓
11-29	✓	12-18	✓
12-6	✓	12-25	✓
12-13	✓	1-1	✓
12-20	✓	1-8	✓
12-27	✓	1-15	✓
1-3	✓	1-22	✓
1-10	✓	1-29	✓
1-17	✓	2-5	✓
1-24	✓	2-12	✓
1-31	✓	2-19	✓
2-7	✓	2-26	✓
2-14	✓	3-5	✓
2-21	✓	3-12	✓
2-28	✓	3-19	✓
3-6	✓	3-26	✓
3-13	✓	4-2	✓
3-20	✓	4-9	✓
3-27	✓	4-16	✓
4-3	✓	4-23	✓
4-10	✓	4-30	✓
4-17	✓	5-7	✓
4-24	✓	5-14	✓
5-1	✓	5-21	✓
5-8	✓	5-28	✓
5-15	✓	6-4	✓
5-22	✓	6-11	✓
5-29	✓	6-18	✓
6-5	✓	6-25	✓
6-12	✓	7-2	✓
6-19	✓	7-9	✓
6-26	✓	7-16	✓
7-3	✓	7-23	✓
7-10	✓	7-30	✓
7-17	✓	8-6	✓
7-24	✓	8-13	✓
7-31	✓	8-20	✓
8-7	✓	8-27	✓
8-14	✓	9-3	✓
8-21	✓	9-10	✓
8-28	✓	9-17	✓
9-4	✓	9-24	✓
9-11	✓	10-1	✓
9-18	✓	10-8	✓
9-25	✓	10-15	✓
10-2	✓	10-22	✓
10-9	✓	10-29	✓
10-16	✓	11-5	✓
10-23	✓	11-12	✓
10-30	✓	11-19	✓
11-6	✓	11-26	✓
11-13	✓	12-3	✓
11-20	✓	12-10	✓
11-27	✓	12-17	✓
12-4	✓	12-24	✓
12-11	✓	1-1	✓
12-18	✓	1-8	✓
12-25	✓	1-15	✓
1-1	✓	1-22	✓
1-8	✓	1-29	✓
1-15	✓	2-5	✓
1-22	✓	2-12	✓
1-29	✓	2-19	✓
2-5	✓	2-26	✓
2-12	✓	3-5	✓
2-19	✓	3-12	✓
2-26	✓	3-19	✓
3-5	✓	3-26	✓
3-12	✓	4-2	✓
3-19	✓	4-9	✓
3-26	✓	4-16	✓
4-2	✓	4-23	✓
4-9	✓	4-30	✓
4-16	✓	5-7	✓
4-23	✓	5-14	✓
4-30	✓	5-21	✓
5-7	✓	5-28	✓
5-14	✓	6-4	✓
5-21	✓	6-11	✓
5-28	✓	6-18	✓
6-4	✓	6-25	✓
6-11	✓	7-2	✓
6-18	✓	7-9	✓
6-25	✓	7-16	✓
7-2	✓	7-23	✓
7-9	✓	7-30	✓
7-16	✓	8-6	✓
7-23	✓	8-13	✓
7-30	✓	8-20	✓
8-6	✓	8-27	✓
8-13	✓	9-3	✓
8-20	✓	9-10	✓
8-27	✓	9-17	✓
9-3	✓	9-24	✓
9-10	✓	10-1	✓
9-17	✓	10-8	✓
9-24	✓	10-15	✓
10-1	✓	10-22	✓
10-8	✓	10-29	✓
10-15	✓	11-5	✓
10-22	✓	11-12	✓
10-29	✓	11-19	✓
11-5	✓	11-26	✓
11-12	✓	12-3	✓
11-19	✓	12-10	✓
11-26	✓	12-17	✓
12-3	✓	12-24	✓
12-10	✓	1-1	✓
12-17	✓	1-8	✓
12-24	✓	1-15	✓
1-1	✓	1-22	✓
1-8	✓	1-29	✓
1-15	✓	2-5	✓
1-22	✓	2-12	✓
1-29	✓	2-19	✓
2-5	✓	2-26	✓
2-12	✓	3-5	✓
2-19	✓	3-12	✓
2-26	✓	3-19	✓
3-5	✓	3-26	✓
3-12	✓	4-2	✓
3-19	✓	4-9	✓
3-26	✓	4-16	✓
4-2	✓	4-23	✓
4-9	✓	4-30	✓
4-16	✓	5-7	✓
4-23	✓	5-14	✓
4-30	✓	5-21	✓
5-7	✓	5-28	✓
5-14	✓	6-4	✓
5-21	✓	6-11	✓
5-28	✓	6-18	✓
6-4	✓	6-25	✓
6-11	✓	7-2	✓
6-18	✓	7-9	✓
6-25	✓	7-16	✓
7-2	✓	7-23	✓
7-9	✓	7-30	✓
7-16	✓	8-6	✓
7-23	✓	8-13	✓
7-30	✓	8-20	✓
8-6	✓	8-27	✓
8-13	✓	9-3	✓
8-20	✓	9-10	✓
8-27	✓	9-17	✓
9-3	✓	9-24	✓
9-10	✓	10-1	✓
9-17	✓	10-8	✓
9-24	✓	10-15	✓
10-1	✓	10-22	✓
10-8	✓	10-29	✓
10-15	✓	11-5	✓
10-22	✓	11-12	✓
10-29	✓	11-19	✓
11-5	✓	11-26	✓
11-12	✓	12-3	✓
11-19	✓	12-10	✓
11-26	✓	12-17	✓
12-3	✓	12-24	✓
12-10	✓	1-1	✓
12-17	✓	1-8	✓
12-24	✓	1-15	✓
1-1	✓	1-22	✓
1-8	✓	1-29	✓
1-15	✓	2-5	✓
1-22	✓	2-12	✓
1-29	✓	2-19	✓
2-5	✓	2-26	✓
2-12	✓	3-5	✓
2-19	✓	3-12	✓
2-26	✓	3-19	✓
3-5	✓	3-26	✓
3-12	✓	4-2	✓
3-19	✓	4-9	✓
3-26	✓	4-16	✓
4-2	✓	4-23	✓
4-9	✓	4-30	✓
4-16	✓	5-7	✓
4-23	✓	5-14	✓
4-30	✓	5-21	✓
5-7	✓	5-28	✓
5-14	✓	6-4	✓
5-21	✓	6-11	✓
5-28	✓	6-18	✓
6-4	✓	6-25	✓
6-11	✓	7-2	✓
6-18	✓	7-9	✓
6-25	✓	7-16	✓
7-2	✓	7-23	✓
7-9	✓	7-30	✓
7-16	✓	8-6	✓
7-23	✓	8-13	✓
7-30	✓	8-20	✓
8-6	✓	8-27	✓
8-13	✓	9-3	✓
8-20	✓	9-10	✓
8-27	✓	9-17	✓
9-3	✓	9-24	✓
9-10	✓	10-1	✓
9-17	✓	10-8	✓
9-24	✓	10-15	✓
10-1	✓	10-22	✓
10-8	✓	10-29	✓
10-15	✓	11-5	✓
10-22	✓	11-12	✓
10-29	✓	11-19	✓
11-5	✓	11-26	✓
11-12	✓	12-3	✓
11-19	✓	12-10	✓
11-26	✓	12-17	✓
12-3	✓	12-24	✓
12-10	✓	1-1	✓
12-17	✓	1-8	✓
12-24	✓	1-15	✓
1-1	✓	1-22	✓
1-8	✓	1-29	✓
1-15	✓	2-5	✓
1-22	✓	2-12	✓
1-29	✓	2-19	✓
2-5	✓	2-26	✓
2-12	✓	3-5	✓
2-19	✓	3-12	✓
2-26	✓	3-19	✓
3-5	✓	3-26	✓
3-12	✓	4-2	✓
3-19	✓	4-9	✓
3-26	✓	4-16	✓
4-2	✓	4-23	✓
4-9	✓	4-30	✓
4-16	✓	5-7	✓
4-23	✓	5-14	✓
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5-7	✓	5-28	✓
5-14	✓	6-4	✓
5-21	✓	6-11	✓
5-28	✓	6-18	✓
6-4	✓	6-25	✓
6-11	✓	7-2	✓
6-18	✓	7-9	✓
6-25	✓	7-16	✓
7-2	✓	7-23	✓
7-9	✓	7-30	✓
7-16	✓	8-6	✓
7-23	✓	8-13	✓
7-30	✓	8-20	✓
8-6	✓	8-27	✓
8-13	✓	9-3	✓
8-20	✓	9-10	✓
8-27	✓	9-17	✓
9-3	✓	9-24	✓
9-10	✓	10-1	✓
9-17	✓	10-8	✓
9-24	✓	10-15	✓
10-1	✓	10-22	✓
10-8	✓	10-29	✓
10-15	✓	11-5	✓
10-22	✓	11-12	✓
10-29	✓	11-19	✓
11-5	✓	11-26	✓
11-12	✓	12-3	✓
11-19	✓	12-10	✓
11-26	✓	12-17	✓
12-3	✓	12-24	✓
12-10	✓	1-1	✓
12-17	✓	1-8	✓
12-24	✓	1-15	✓
1-1	✓	1-22	✓
1-8	✓	1-29	✓
1-15	✓	2-5	✓
1-22	✓	2-12	✓
1-29	✓	2-19	✓
2-5	✓	2-26	✓
2-12	✓	3-5	✓
2-19	✓	3-12	✓
2-26	✓	3-19	✓
3-5	✓	3-26	✓
3-12	✓	4-2	✓
3-19	✓	4-9	✓
3-26	✓	4-16	✓
4-2	✓	4-23	✓
4-9	✓	4-30	✓
4-16	✓	5-7	✓
4-23	✓	5-14	✓
4-30	✓	5-21	✓
5-7	✓	5-28	✓
5-14	✓	6-4	✓
5-21	✓	6-11	✓
5-28	✓	6-18	✓
6-4	✓	6-25	✓
6-11	✓	7-2	✓
6-18	✓	7-9	✓
6-25	✓	7-16	✓
7-2	✓	7-23	✓
7-9	✓	7-30	✓
7-16	✓	8-6	✓
7-23	✓	8-13	✓
7-30	✓	8-20	✓
8-6	✓	8-27	✓
8-13	✓	9-3	✓
8-20	✓	9-10	✓
8-27	✓	9-17	✓
9-3	✓	9-24	✓
9-10	✓	10-1	✓
9-17	✓	10-8	✓
9-24	✓	10-15	✓
10-1	✓	10-22	✓
10-8	✓	10-29	✓
10-15	✓	11-5	✓
10-22	✓	11-12	✓
10-29	✓	11-19	✓
11-5	✓	11-26	✓
11-12	✓	12-3	✓
11-19	✓	12-10	✓
11-26	✓	12-17	✓
12-3	✓	12-24	✓
12-10	✓	1-1	✓
12-17	✓	1-8	✓
12-24	✓	1-15	✓
1-1	✓	1-22	✓
1-8	✓	1-29	✓
1-15	✓	2-5	✓
1-22	✓	2-12	✓
1-29	✓	2-19	✓
2-5	✓	2-26	✓
2-12	✓	3-5	✓
2-19	✓	3-12	✓
2-26	✓	3-19	✓
3-5	✓	3-26	✓
3-12	✓	4-2	✓
3-19	✓	4-9	✓
3-26	✓	4-16	✓
4-2	✓	4-23	✓
4-9	✓	4-30	✓
4-16	✓	5-7	✓
4-23	✓	5-14	✓
4-30	✓	5-21	✓
5-7	✓	5-28	✓
5-14	✓	6-4	✓
5-21	✓	6-11	✓
5-28	✓	6-18	✓
6-4	✓	6-25	✓
6-11	✓	7-2	✓
6-18	✓	7-9	✓
6-25	✓	7-16	✓
7-2	✓	7-23	✓
7-9	✓	7-30	✓
7-16	✓	8-6	✓
7-23	✓	8-13	✓
7-30	✓	8-20	✓
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8-20	✓	9-10	✓
8-27	✓	9-17	✓
9-3	✓	9-24	✓
9-10	✓	10-1	✓
9-17	✓	10-8	✓
9-24	✓	10-15	✓
10-1	✓	10-22	✓
10-8	✓	10-29	✓
10-15	✓	11-5	✓
10-22	✓		

COUNTY LEA FIELD Maljamar STATE NM OWDD  
 OPR. R. DER-SCOTT MANAGEMENT CO. MAP  
 3. Mitchell  
 Sec. 7. T-17-S. R-32-E CO-ORD  
 650' FNL. 690' FEL of Sec.

Re-Cmp 2-8-67	CLASS		EL	
	FORMATION	DATUM	FORMATION	DATUM
CSG & SX - TUBING				
8 5/8" 804' 50				
7" 3566' 100				
4 1/2" 3570' Circ				
LOGS EL GR RA IND HC A				
	TD 3981'			

IP Grayburg-SA OH 3570-3981' Pmpd 27 BOPD + 13 BW. Pot. Based on 24 hr test.

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CONT. PROP DEPTH 3970' TYPE  
 DATE

F.R. 12-15-66; OWDD  
 (Grayburg-San Andres)  
 (Orig. Suppes & Kennedy #3 Mitchell cmp P&A  
 1-15-42, OTD 3970')  
 3-6-67 AMEND FOOTAGE: Formerly 660' FNL, 660' FEL  
 of Sec.  
 TD 3981', COMPLETE  
 Ran 4 1/2" casing  
 Drilled to 3981'  
 Complete Natural

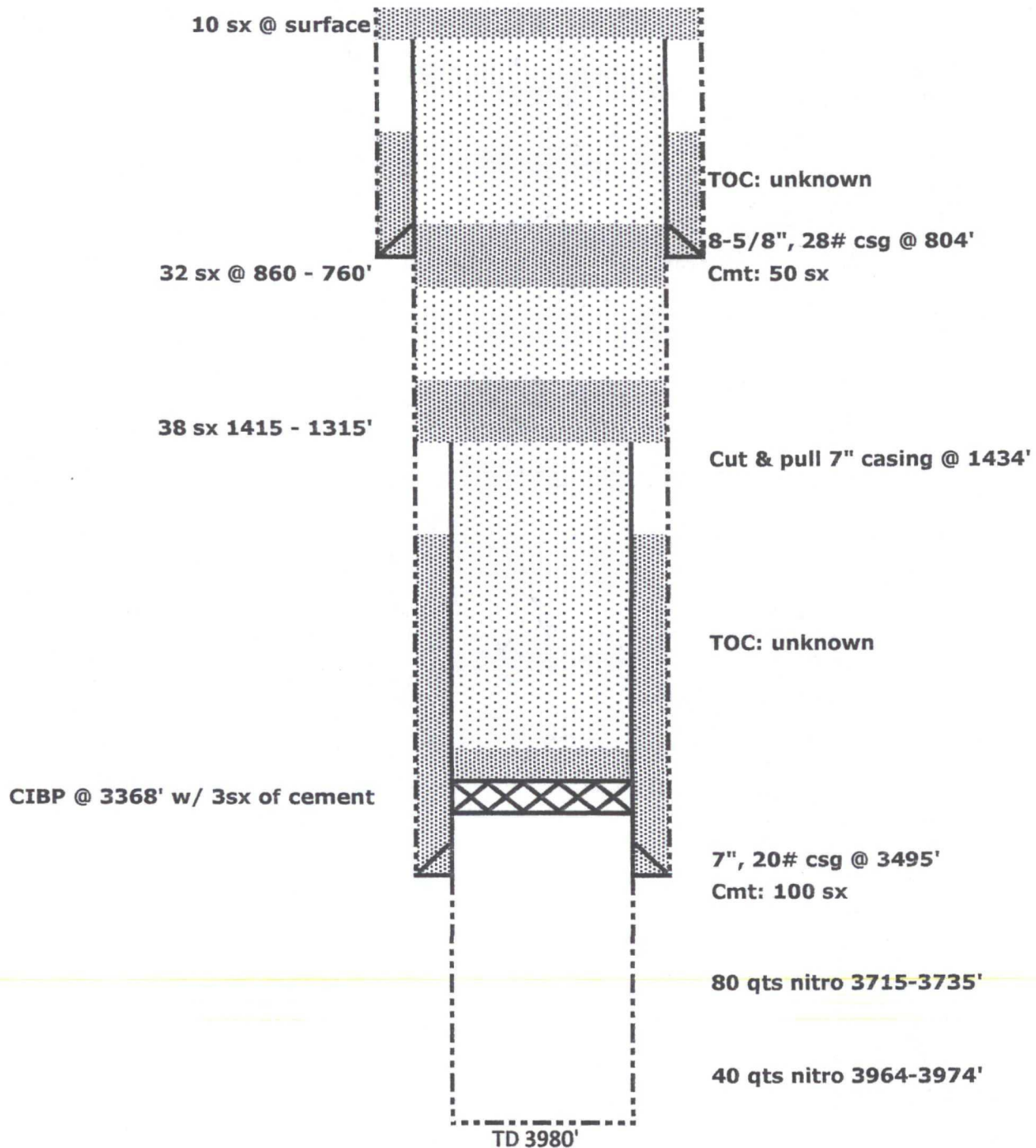
# MITCHELL #2

30-025-00476

660 FSL 660 FEL SECTION 6, T-17-S, R-32-E

LEA COUNTY, NEW MEXICO

**P&A JULY, 1969**





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLE  
(Other instructions  
verse side)

LEASE DESIGNATION AND SERIAL NO.

LC 061434

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Mitchell

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Maljamar Gbr. S. A.

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

6 - 17 - 32

12. COUNTY OR PARISH 13. STATE

Lea

N. M.

1. OIL WELL ☐ GAS WELL ☐ OTHER WIW

2. NAME OF OPERATOR

Ryder Scott Management Company

3. ADDRESS OF OPERATOR

922 - 8th Street, Wichita Falls, Texas 76301

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

600' FSL 660' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

4045' G. L.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

7-16-69 Set cast iron bridge plug at 3368' in 7" csg. with 3 ex. cmt. on top.  
(Top of 4-1/2" liner at 3427") Filled hole with mud laden fluid.  
Shot csg. at 1718' and 1415'

Set 38 sx cmt. plug from 1415' to 1315'

" 32 X " " " 860' to 760'

" 10 " " " " 31' to 0'

Erected 4" metal marker &amp; clean location.

Pulled 1433.71' of 7" casing.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Agent

DATE 11-19-69

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED

MAY 12 1971

\*See Instructions on Reverse Side

Form 10-351  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPL  
(Other instructions  
verse side)

2-  
re

Form approved.  
Budget Bureau No. 42-R1424

GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.

LC 061434

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back into a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposal.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT-NAME

8. FARM OR LEASE NAME

Mitchell

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

sec. 6, 17S, 32E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4045' G. L.

12. COUNTY OR PARISH

Lea

13. STATE

N. M.

10. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐  
☐

PULL OR ALTER CASING

☐  
☐  
☒  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS.

(Other)

SUBSEQUENT REPORT-OF:

WATER SHUT-OFF

☐  
☐  
☐  
☐  
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Work will start approximately 7-10-69

Will set bridge plug with cement cap across top of perforations;  
100' cement plug in and out of shoe of surface pipe;  
10 sack cement plug in top of surface pipe;  
cap welded over surface pipe & 4' marker erected showing well number & location;  
hole will be filled with mud-laden fluid.

18. I hereby certify that the foregoing is true and correct

SIGNED

*E. Ann S. Halvey*

TITLE

Agent

DATE

7-7-69

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

## NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103  
(Rev 3-55)

## MISCELLANEOUS REPORTS ON WELLS

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

Name of Company <b>WATER FLOOD ASSOCIATES, INC.</b>			Address <b>Box 376, ARTESIA, NEW MEXICO</b>			
Lease <b>MITCHELL</b>	Well No. <b>2</b>	Unit Letter <b>P</b>	Section <b>6</b>	Township <b>17S</b>	Range <b>32E</b>	
Date Work Performed <b>26 JAN. 62</b>	Pool <b>MALJAMAR</b>		County <b>LEA</b>			

THIS IS A REPORT OF: (Check appropriate block)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Beginning Drilling Operations | <input type="checkbox"/> Casing Test and Cement Job | <input checked="" type="checkbox"/> Other (Explain): |
| <input type="checkbox"/> Plugging                      | <input type="checkbox"/> Remedial Work              | <b>CONVERSION</b>                                    |

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

**CONVERTED TO WATER INPUT WELL.**

Witnessed by	Position	Company
--------------	----------	---------

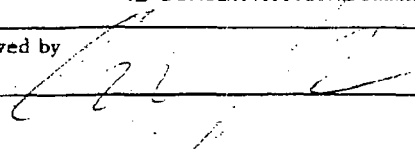
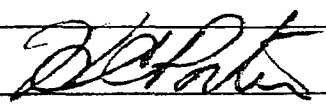
## FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

## ORIGINAL WELL DATA

DF Elev.	TD	PBTD	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval		Producing Formation(s)		

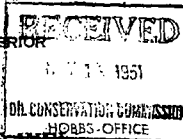
## RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION		I hereby certify that the information given above is true and complete to the best of my knowledge.	
Approved by 		Name 	
Title		Position <b>ENGINEER</b>	
Date		Company <b>WATER FLOOD ASSOCIATES, INC.</b>	

U. S. LAND OFFICE Land Office  
SERIAL NUMBER 029000  
LEASE OR PERMIT TO PROSPECT Permit

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL <sup>HOBE</sup>

**LOCATE WELL CORRECTLY**

Company The Green Y Company Address Roswell, New Mexico  
Lessor of Tract Grace Mitchell Field Mojave State New Mexico  
Well No. 2-A Sec. 6 T. 17 S. R. 32 Meridian H.M.P.M. County Lea  
Location 600 ft. (N.) of S. Line and 660 ft. (W.) of E. Line of Section 6 Elevation 4045  
The information given herewith is a complete and correct record of the well and all work done thereon  
so far as can be determined from all available records. Signed Sam'l H. Marshall  
Date June 7, 1940 Vice President

Date June 7, 1940 Title Vice President  
The summary on this page is for the condition of the well at above date.  
Commenced drilling March 8 1940 Finished drilling May 30 1940

## OIL OR GAS SANDS OR ZONES

(Denote gas by  $G$ )

(Denote gas by U)

No. 1, from <u>3727</u> to <u>3735</u>	No. 4, from _____ to _____
No. 2, from <u>3837</u> to <u>3843</u>	No. 5, from _____ to _____
No. 3, from <u>3967</u> to <u>3973</u>	No. 6, from _____ to _____

### IMPORTANT WATER SANDS

No. 1, from 650 to 695      No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from 730 to 745      No. 4, from \_\_\_\_\_ to \_\_\_\_\_

### CASING RECORD

[illegible]

### MUDDING AND CEMENTING RECORD

Blow count	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8		50	Balllbarton		
7		100	Balllbarton		5 tons

## PLUGS AND ADAPTERS

Heaving plug—Material	Length	Depth set
Adapters—Material	Size	

### SHOOTING RECORD

Shot	Shot used	Explosive used	Quantity	Time	Depth shot	Depth cleaned out
5 <sup>th</sup>			40 lbs.		396-74	Bottom
6 <sup>th</sup>			80 "		375-35	Bottom

**TOOLS USED**

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from 0 feet to 330 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

19. Put to producing May 30, 1940  
The production for the first 24 hours was 15 barrels of fluid of which 100 % was oil; \_\_\_\_\_ %  
emulsion; \_\_\_\_\_ % water; and \_\_\_\_\_ % sediment. Gravity, °Pé. 28  
If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas  
Rock pressure, lbs. per sq. in. \_\_\_\_\_

**EMPLOYEES**

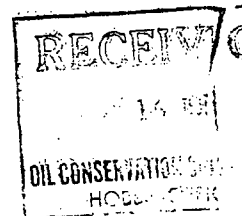
Driller	Driller
Driller	Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
IRON-	LO-	LOTTIC REEL	IRON-VALU-

**EXAMINATION RECORD—Continued**

## GRACE MITCHELL 2-4



From	To	Formation
0	25	Caliche
25	50	Blue Shale and Red Beds
50	80	Blue Shale
80	100	Blue Shale and Red Beds
100	130	Red Rock
130	150	Brown Sand
150	175	Gray sand stone
175	200	Red Shale
200	260	Red Rock and shale
260	530	Red shale
530	550	Red Bed
550	720	Red Sandy shale
720	730	Red sand
730	745	Red Rock
745	775	Red Shale
775	800	Red Shale
800	810	Red Bed
810	812	Red Shale
812	827	Gyp Shale
827	845	Lime
845	855	Anhydrite
855	955	Red bed
955	965	Anhydrite
965	1010	Anhydrite and Red shale
1010	1130	Red shale and salt
1130	1445	Potash and salt
1445	1490	Salt
1490	1840	Salt, anhydrite shells
1840	1850	Salt
1850	1870	White sand and potash
1870	1880	Anhydrite
1180	1920	Anhydrite and salt
1920	1960	Salt and potash
1960	1990	Salt
1190	2017	Salt and Potash
2017	2027	Anhydrite
2027	2035	Red Rock
2035	2060	Anhydrite shells, red rock
2060	2080	Red Shale and anhydrite
<del>2080</del> 2080	2095	Salt
2195	2220	Anhydrite
2220	2230	Red bed or shale
2230	2295	Anhydrite, red shale
2295	2320	Anhydrite
2380	2355	Anhydrite, red shale
2355	2385	Anhydrite, brown shale
2385	2600	Anhydrite, red shale
2600	2850	Anhydrite
2850	3010	Anhydrite and red shale
3010	3135	Anhydrite
3135	3145	Red sand
3145	3205	Anhydrite
3205	3215	Red bed
3215	3223	Brown lime
3223	3233	Brown lime
3233	3243	Anhydrite
3243	3257	Anhydrite
3257	3320	Lime
3320	3325	Red bed
3325	3350	Anhydrite and red shale streaks
3350	3366	Anhydrite and lime shells
3366	3370	Sandballing
3370	3435	Anhydrite and shale breaks

3435	3440	Anhydrite shells and shale
3440	3465	Anhydrite and brown shale
3465	3471	Lime and shale
3471	3491	Anhydrite and red rock
3491	3500	Anhydrite
3500	3731	Lime
3731	3727	Correction in Hole
3727	3735	Sandy lime
3735	3740	Correct Halliburton Measurement 3737
3737	3769	Lime
3769	3763	Correction in Hole
3763	3770	Lime
3770	3776	White Lime
3776	3808	Lime
3808	3820	Brown Lime
3820	3830	Lime
3830	3834	Sand
3834	3837	Brown Lime
3837	3843	Sandy shale and lime
3843	3973	White lime
3973	3979	Lime and sand
3979	3987	Gray Lime

Halliburton Measurement—Total depth 3980

Halliburton Jeep run from 812 feet to bottom, copy furnished

4095  
3843  
+302

A 5x5 grid of squares, likely a map or a diagram. The grid is composed of 25 squares. The letter 'N' is positioned at the top center, 'W' is on the left side, and 'E' is at the bottom center. The grid is enclosed in a thick border.

Amount			
Casing and Cementing Record			
Size	Feet	Inches	Sex Cement

Gals.

Top Pay *3725* TD

TA
TS
BS 1970
TRS
TBL
TWL 1970

\_\_\_\_\_

No. of Quarts	Shot at	Feet
S/O	S/O	S/O
S/O	S/O	S/O

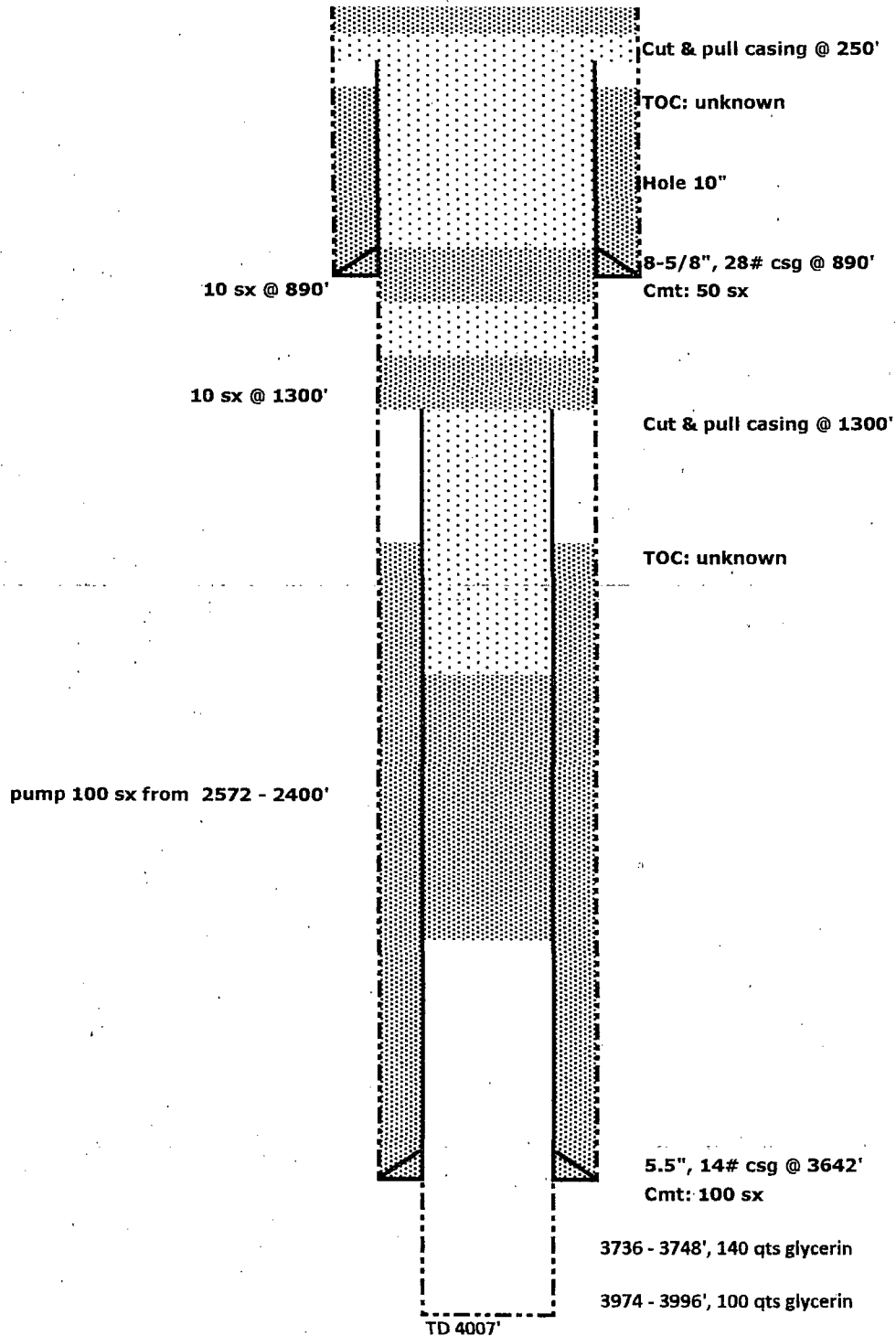
DATE	DATE
MAR 6 - 40	
MAR 1 - 40	
MAR 20 - 40	
MAR 27 - 40	
APR 3	
APR 10	
APR 17	
APR 24	
MAY 1	
MAY 8	
MAY 15	
MAY 22	
MAY 28	
JUN 5	

30-025-00471  
1650 FSL 330 FWL SECTION 5, T-17-S, R-32-E  
LEA COUNTY, NEW MEXICO  
**P&A APRIL, 1964**

1650 FSL 330 FWL SECTION 5, T-17-S, R-32-E

LEA COUNTY, NEW MEXICO

**P&A APRIL, 1964**





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIP  
(Other instructive  
verse side)

DATE  
n re

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC 058775

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

30-225-004/71

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Mitchell

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

Mallamas

11. SEC., T., R., M., OR ALK. AND  
SURVEY OR AREA

S-17S-32E

1.

OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Water Flood Associates, Inc.

3. ADDRESS OF OPERATOR

Box 376, Artesia, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)

At surface

1650' from South line and 330' from West line of Sec. 5  
17S, 32E, NMPM, Lea County, New Mexico. SW/NW/SW

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4055 GL

12. COUNTY OR PARISH

Lea

13. STATE

N. M.

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐

ALTERING CASING ☒

ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Pumped 100 ac of cement into casing @ 2572'. Top of cement @ 2400'. Pulled 1300' of 5 1/2" casing. Spotted heavy mud from 2400' to 1300'. Spotted 10 ac of cement @ 1300', mud to 890', 10 ac of cement @ 890'. Pulled 250' of 8 5/8" casing. Filled w/heavy mud from 890' to surface. Set and cemented 4" pipe marked at surface. Work performed April, 1964.

18. I hereby certify that the foregoing is true and correct according to our records.

SIGNED

J. D. Thompson

TITLE

Project Engineer

DATE

2/18/66

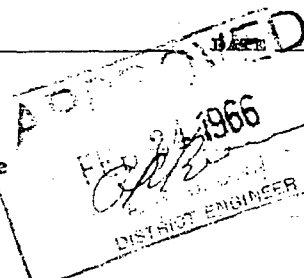
(This space for Federal or State office use)

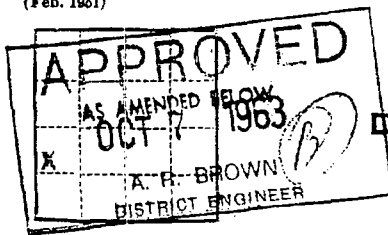
APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side





(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office \_\_\_\_\_  
Lease No. LC 52775  
Unit L

## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

OCTOBER 2, 1963

Well No. \_\_\_\_\_ is located 1650 ft. from 1N/S line and 350 ft. from 1E/W line of sec. 5

SW-1/4-S 17S 2E NMPM  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
MALJAMAR LEA NEW MEXICO  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4055 ft.

### DETAILS OF WORK

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

5 1/2" CASING WAS SET IN THIS WELL AT 3642' AND CEMENTED WITH 100 BAGS. CASING IS COLLAPSED IN THIS WELL AT 2572'. PLAN TO PLUG THIS WELL AND DRILL A REPLACEMENT WELL ON THE SAME 40-ACRE TRACT. PLAN TO SQUEEZE 200 BAGS OF HIGH YIELD CEMENT INTO OPEN HOLE SECTION AND CASING BELOW 2572' WITH BRADENHEAD SQUEEZE. THIS AMOUNT WILL ALSO COVER TO BASE OF SALT. PLAN TO SPOT 50-FOOT PLUG IN BOTTOM SURFACE CASING AT 890' AND AT SURFACE WITH PROPER 4" PIPE MARKER.

*Spot plug mud between plugs*

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company WATER FLOOD ASSOCIATES, INC.

Address Box 376

ARTESIA, NEW MEXICO

By Original Signed by H. C. Porter  
H. C. PORTER  
Title SUPERINTENDENT

## Santa Fe, New Mexico

Agency Office

x					

AREA 640 ACRES  
LOCATE WELL CORRECTLY

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). **SUBMIT IN TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.**

OIL SANDS OR ZONES

### IMPORTANT WATER SANDS

### CASING RECORD

[illegible]

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
10	8 5/8	890	50	Halliburton		10 sacks aquagel
8	5 1/2	3642	100	Halliburton		10 sacks aquagel

Heaving plug—Material..... Length..... Depth Set.....

Adapters — Material..... Size.....

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
5	5	glycerin	140	12-6	4000	4007
4	5	glycerin	140	12-16	3775	4007

Results of shooting or chemical treatment increased from 150 barrels to 400 barrels of oil per day

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

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.  
Cable tools were used from 0 feet to 4007 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

Put to producing, Dec 4 1948 19.....

The production of the first 24 hours was 400 barrels of fluid of which 100 % was oil; ..... %  
emulsion; ..... % water; and ..... % sediment. Gravity, Be 36.....

If gas well, cu. ft. per 24 hours..... Gallons gasoline per 1,000 cu. ft. of gas.....

Rock pressure, lbs. per sq. in.....

Clyde Galloway	Driller	F I Glover	Driller
H J Jinkins	Driller	N C Pennell	Driller

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

Subscribed and sworn to before me this 31st Artesia New Mex 12-28-48  
day of December 1948 Name B. E. Kennedy  
Position Drilling Sup.

## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	12	12	Clay
12	25	13	Caliche
25	90	65	Red Rock
90	125	35	Blue Shale
125	135	10	Red Rock
135	195	60	Green Shale
195	670	485	Red Rock
670	695	25	Sand
695	802	107	Red Rock
802	935	133	Anhydrite
935	945	10	Salt
945	985	40	Anhydrite
985	2000	1015	Salt
2000	3145	1145	Anhydrite
3145	3165	20	Red Sand
3165	3600	435	Anhydrite
3600	3736	136	Lime
3736	3748	12	Sand
3748	3862	114	Lime
3862	3974	112	White Lime
3974	3996	22	Sand
3996	4007	11	Lime

## ATTACHMENT VI

### Tabulation of Wells Penetrating Injection Zone

No wells within the ½-mile AOR penetrate the injection zone. Two (2) wells within the 2-mile AOR penetrate the injection zone. The Hummingbird Federal #1 was drilled about 1.3 miles west of the proposed SWD well and penetrated the Wolfcamp at 8,800 feet. The well TD was 12,538 feet in the Strawn formation and noncommercial. The Hummingbird Federal #1 was plugged and abandoned. The Elvis #2 is located approximately 1.8 miles southeast of the proposed SWD well and penetrated the Wolfcamp at 8,910 feet. The well TD was in the Mississippian at 14,000' and was noncommercial. The well was perforated in the Cisco formation between 10,392 and 10,890 feet and Wolfcamp between 8,986 and 9,592 feet.

Well	API	TD	Unit	Comments
Hummingbird Fed. #1	30-015-33992	12,450	Strawn	P/A
Elvis #2	30-025-33854	14,000	Strawn	Recompleted in Wolfcamp from 9674 – 9989'

## **ATTACHMENT VII**

### **Operation Summary**

Well: Artesia SWD Well #1

Location: Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East  
Lea County, New Mexico

Land Ownership: R360 Permian Basin, LLC

Proposed Injection Zone: Wolfcamp (8,820' to 10,000')

Proposed Well TD: 10,200'

#### **Summary:**

1. Proposed average daily injection rate is 10,000 bbl/day with a maximum daily injection rate of 15,000 bbl/day;
2. The is will be a closed system;
3. Proposed average injection pressure is 1,500 psi with maximum pressure of 2150 psi;
4. No wells penetrate the Wolfcamp within the ½-mile AOR.

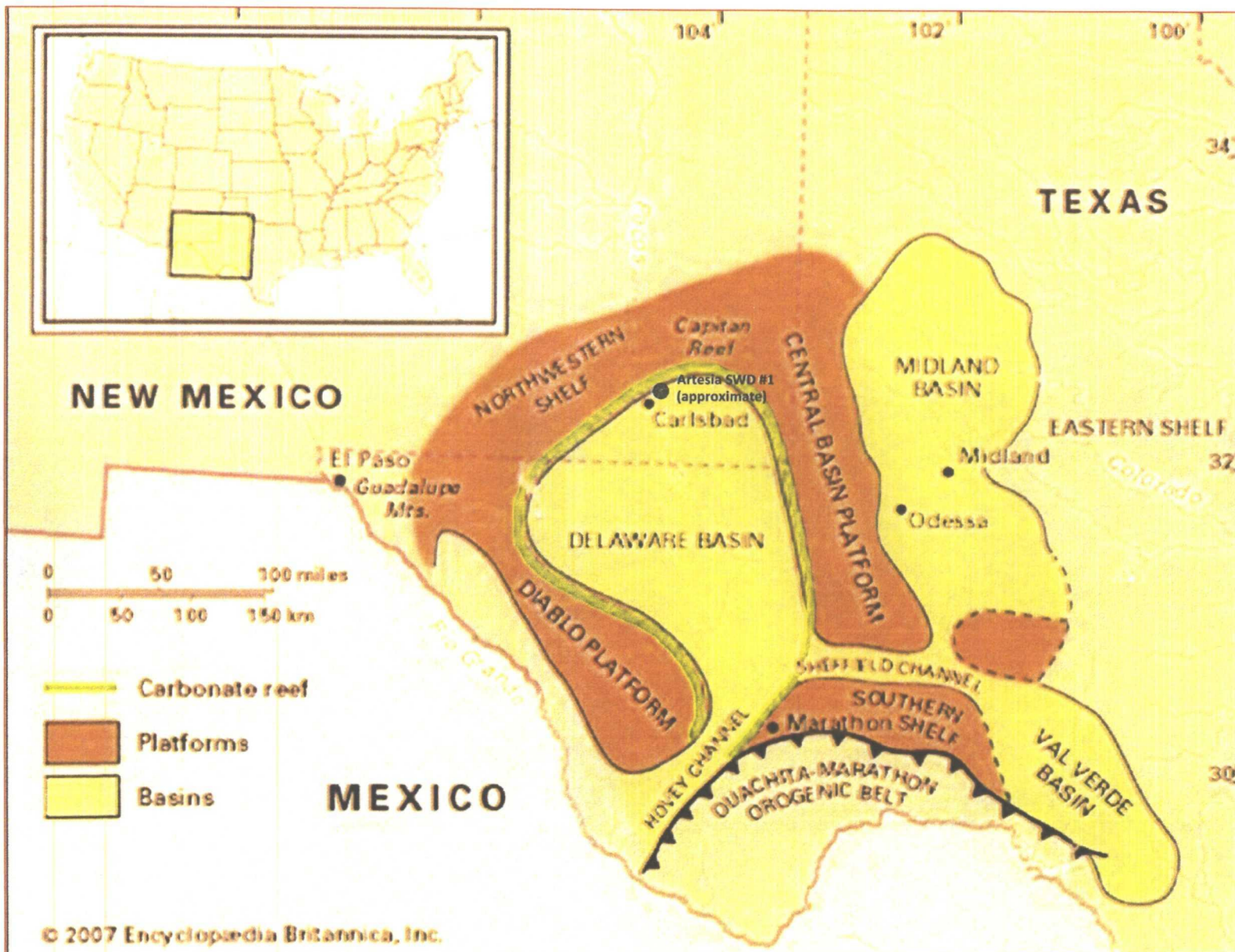
## **ATTACHMENT VIII**

### **Geologic Summary**

The proposed SWD well is located between the northwestern shelf and central basin platform of the Permian Basin. The surface is covered with sand and silt of recent age which is underlain by "red bed" of the Dockum Group (Permian). The Dockum Group is represented by the Chinle formation and Rustler formation, in descending order. The Dockum Group is underlain by halite and evaporites of the Salado formation. The Yates (2,000' to 3,050'), composed principally of gypsum, underlies the Salado Formation. The Queen formation (3,050' to 3,750') is comprised of interbedded sand and dolomite underlies the Yates formation. The San Andres formation (3,740' to 8,800') comprises a thick sequence of limestone, sandstone and gypsum and underlies the Queen formation. The Wolfcamp (8,800' to 11,465') underlies the San Andres and is comprised predominantly of limestone and dark shale. The Wolfcamp is underlain by the Strawn Formation (11,465' to 11,640'), Atoka Formation (11,640' to 11,920'), Morrow Formation (11,920' to 12,450'), Mississippian (12,450' to 13,700') and Devonian rocks, in descending order. The attached drawings present the proposed SWD well location maps and geological cross sections.

### **Groundwater Summary**

The shallowest groundwater bearing unit is perched groundwater that is limited in aerial extent and does not extend beneath the proposed SWD well. The perched water truncates about 1,000 feet southwest of the SWD well. A monitoring well (MW-1) located about 350 feet southwest of the proposed SWD well is dry. Another well (MW-3) located about 1,700 feet west of the proposed SWD well was drilled to about 150 feet below ground surface (bgs) and is dry. There are no water wells within 1-mile of the proposed SWD well.



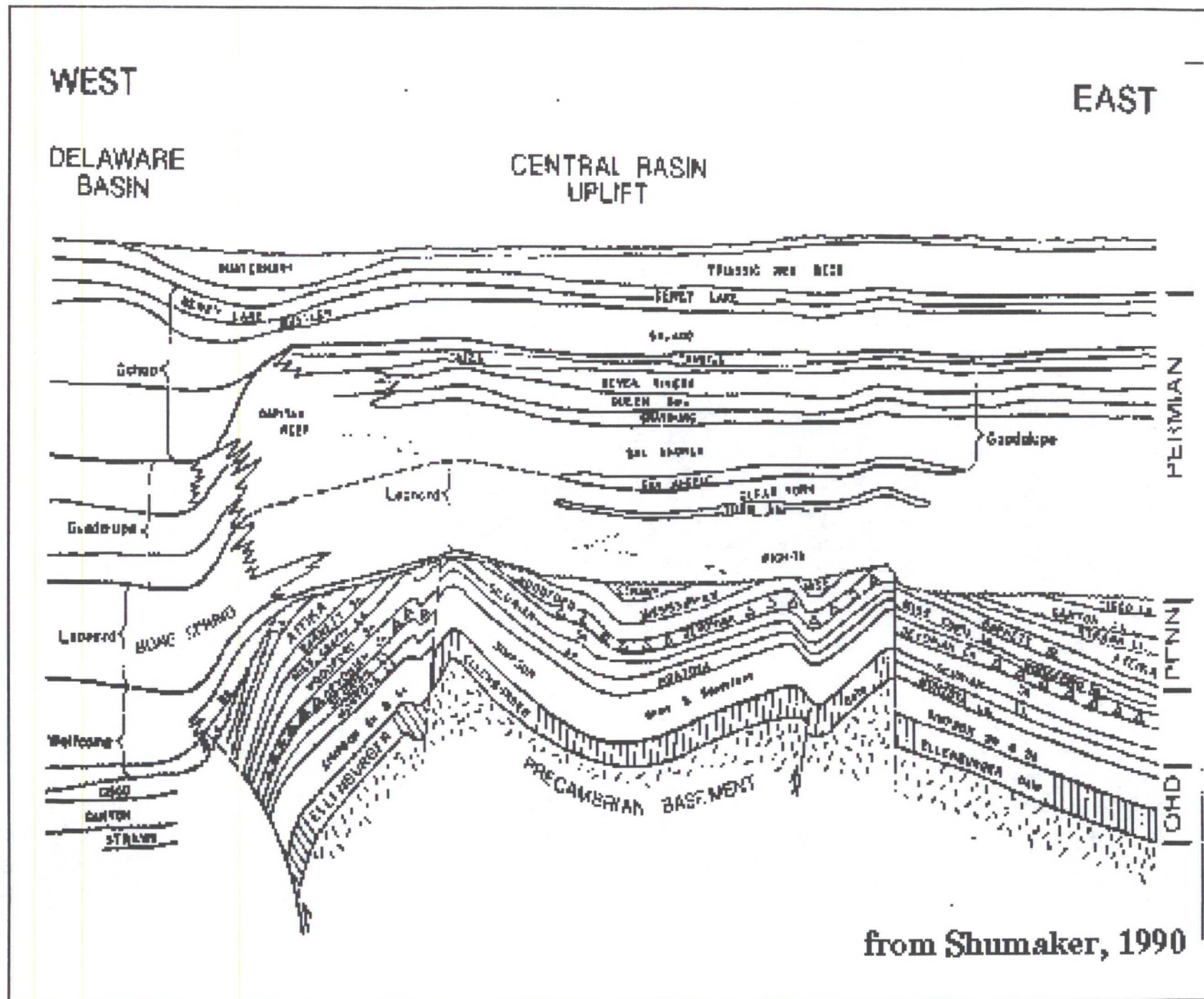
R 360 Environmental  
Artesia SWD #1  
Lea County, New Mexico

N 32° 51' 4.93"  
W 103° 48' 15.45"

Larson &  
Associates, Inc.  
Environmental Consultants



### Geologic Cross Section (generalized Permian Basin)



# Vacuum Field, Lea County, New Mexico

ERA	PERIOD	EPOCH	FORMATION	PRODUCED OIL ● GAS ☆	LITHOLOGY (Bridge State 85)	INTERVAL THICKNESS	FORMATION TOPS (Bridge State 85)
PALEOZOIC	PERMIAN	Ordovician	Dewey Lake		Redbeds / anhydrite	8478'	1527' (+2485')
			Rustler		Sst		2662' (+1354')
			Salado		Evaporites / redbeds		
		Guadalupian	Tanqui		Sandstone / shale		
			Yates	● ☆	Dolomite anhy. dol		2820' (+1195')
			Seven Rivers	☆	Ss / sh / evaporites		
			Queen-Grayburg	● ☆	Dolomite anhydrite		3733' (-283')
			San Andres	●	Sandy dol. / dol. shale		4334' (-378')
			Glenn	●	Dol. / anhydrite dol		5839' (-1823')
		Leonardian	Padlock	●	Dol. / sandy dol.		5950' (-1834')
			Blinberry	●	Dol. / sandy interval		6235' (-22' 9')
			Tuba		Dolomite		7229' (-22' 9')
			Orinburg		Dolomite, arg. dolomite, locally anhydrite		7624' (-3213')
			Abc-shell in reef	●			7937' (-3921')
		Wolfcampian	Wolfcamp	●	Limestone, crin. dolomite, argillaceous limestone		9247' (-5231')

Stratigraphic Column (Purves, 1990)

## **ATTACHMENT VIII**

### **Geologic Summary**

The proposed SWD well is located between the northwestern shelf and central basin platform of the Permian Basin. The surface is covered with sand and silt of recent age which is underlain by "red bed" of the Dockum Group (Permian). The Dockum Group is represented by the Chinle formation and Rustler formation, in descending order. The Dockum Group is underlain by halite and evaporites of the Salado formation. The Yates (2,000' to 3,050'), composed principally of gypsum, underlies the Salado formation. The Queen formation (3,050' to 3,750') is comprised of interbedded sand and dolomite underlies the Yates formation. The San Andres formation (3,740' to 8,800') comprises a thick sequence of limestone, sandstone and gypsum and underlies the Queen formation. The Wolfcamp (8,800' to 11,465') underlies the San Andres and is comprised predominantly of limestone and dark shale. The Wolfcamp is underlain by the Strawn Formation (11,465' to 11,640'), Atoka Formation (11,640' to 11,920'), Morrow Formation (11,920' to 12,450'), Mississippian (12,450' to 13,700') and Devonian rocks, in descending order. The attached drawings present the proposed SWD well location maps and geological cross sections.

### **Groundwater Summary**

The shallowest groundwater bearing unit is perched groundwater that is limited in aerial extent and does not extend beneath the proposed SWD well. The perched water truncates about 1,000 feet southwest of the SWD well. A monitoring well (MW-1) located about 350 feet southwest of the proposed SWD well is dry. Another well (MW-3) located about 1,700 feet west of the proposed SWD well was drilled to about 150 feet below ground surface (bgs) and is dry. There are no water wells within 1-mile of the proposed SWD well.





Figure 2 - Topographic Map





# New Mexico Energy, Minerals and Natural Resources Department

**Susana Martinez**  
Governor

**John H. Bemis**  
Cabinet Secretary-Designate

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey**  
Division Director  
Oil Conservation Division



August 25, 2011

Bill Maak  
R360 Artesia, L.L.C.  
16945 Northchase Drive, Suite 2200  
Houston, Texas 77060

*Surface Permit  
Near TALS  
well*

**Re: Request For Permit Transfer and Financial Assurance Approval**  
**New Operator: R360 Artesia, L.L.C.**  
**Permit: NM1 - 030**  
**Argonaut Insurance Company Bond No.: SUR0001682 (\$93,420.00)**  
**Facility Location: SW/4 SW/4 SW/4 of Section 5, SE/4 SE/4 SE/4 of Section 6 and N/2 of Section 7, Township 17 South, Range 32 East, NMPM, Lea County, New Mexico**

Dear Mr. Maak:

The Oil Conservation Division (OCD) has reviewed R360 Artesia, L.L.C.'s request to transfer a permit, dated August 4, 2011, and the replacement financial assurance, dated August 22, 2011 to demonstrate compliance to Subsection E of 19.15.36.12 NMAC. OCD hereby approves the above-referenced financial assurance and transfer of the surface waste management facility permit NM1-030 to R360 Artesia, L.L.C.

Please be advised that should operations result in pollution of surface water, ground water or the environment, approval of this request does not relieve R360 Artesia, L.L.C of liability. In addition, approval of this request requires R360 Artesia, L.L.C to comply with all applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact Mr. Brad A. Jones of the OCD staff at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,



Gabrielle A. Gerholt  
Assistant General Counsel

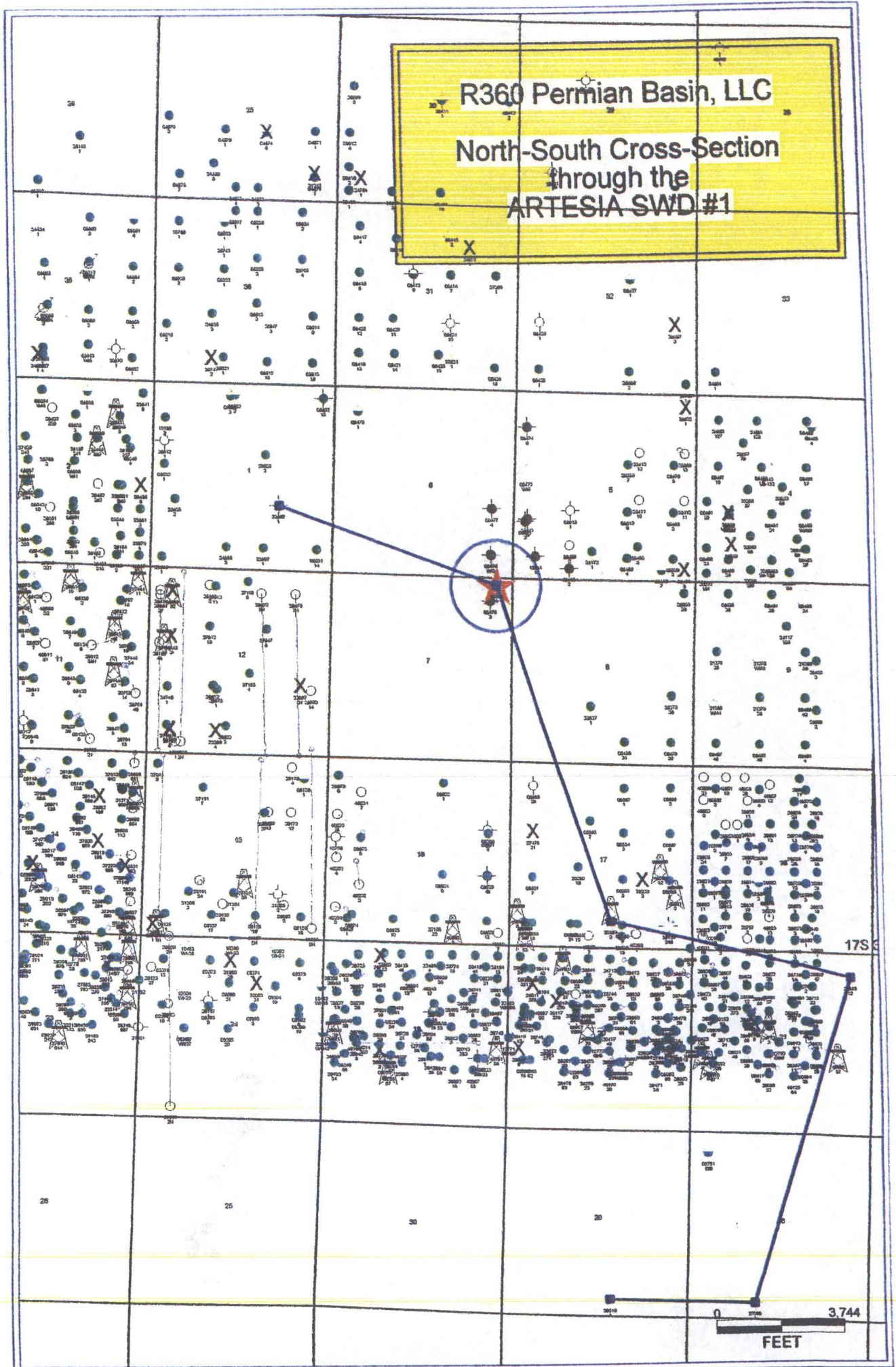
GVG/baj

Enclosure: Copy of Surety Bond # SUR0001682 (total amount \$93,420.00)

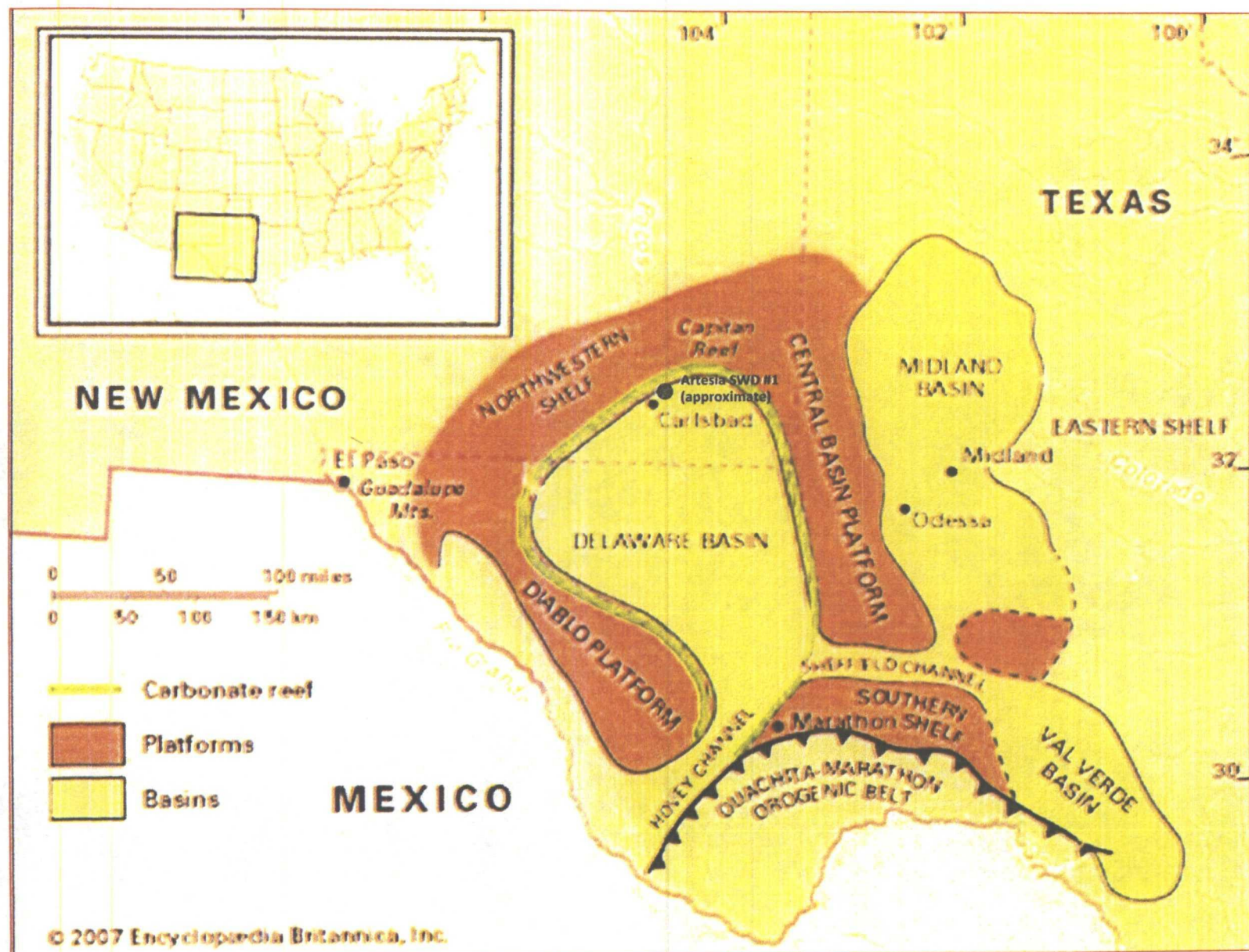
cc: OCD District I Office, Hobbs  
Artesia Aeration, LLC, PO Box 248, Artesia NM 88210

R360 Permian Basin, LLC

North-South Cross-Section  
through the  
ARTESIA SWD #1







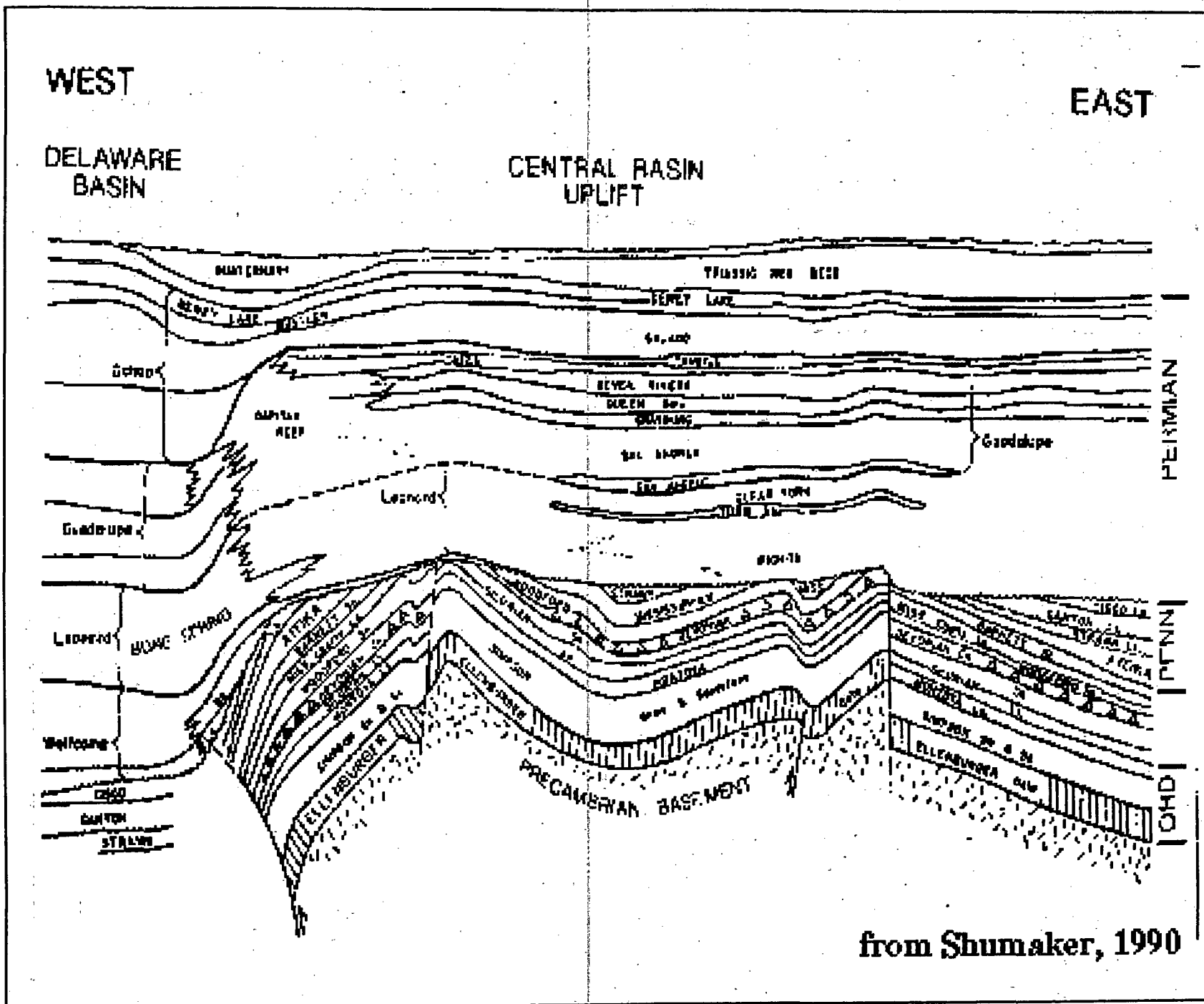
© 2007 Encyclopedia Britannica, Inc.

R 360 Environmental  
Artesia SWD #1  
Lea County, New Mexico

N 32° 51' 4.93"  
W 103° 48' 15.45"

**L**Aarson &  
Associates, Inc.  
Environmental Consultants

## Geologic Cross Section (generalized Permian Basin)



from Shumaker, 1990



# Vacuum Field, Lea County, New Mexico

ERA	PERIOD	EPOCH	FORMATION	PRODUCED OIL ● GAS ☆	LITHOLOGY (Bridge State 85)	INTERVAL THICKNESS	FORMATION TOPS (Bridge State 85)
PALEOZOIC	PERMIAN	Ordovician	Dewey Lake		Redbeds / anhydrite	8478+	1527' (+2485')
			Rustler		Sst		2662' (+1354')
			Salado		Evaporites / redbeds		
		Guadalupean			Sandstone / shale		
			Tanqui		Dolomite anhy. dol		2820' (+1195')
			Varis	● ☆	Ss / sh / evaporites		
			Seven Rivers	☆	Dolomite anhydrite		3733' (-283')
			Queen-Grayburg	● ☆	Sandy dol. / dol shale		4334' (-378')
			San Andres	●	Dol. / anhydrite dol.		5839' (-1823')
			Glorieta	●	Dol. / sandy dol.		5950' (-1834')
		Leonardian	Yaca	●			6235' (-22' 9')
					Dol. / sandy dol.		7225' (-22' 9')
					Dol. / sandy interval		7624' (-3213')
					Colomite		7937' (-3921')
			Abc-shell as reef	●	Dolomite, arg. dolomite, locally argillaceous		9247' (-5231')
		Wolfcampian	Wolfcamp	●	Limestone, crinoid dolomite, argillaceous limestone		

Stratigraphic Column (Purves, 1990)

## **ATTACHMENT IX**

### **Proposed Stimulation Program**

An acid cleanup is proposed for removing drilling fluids and residuals from the wellbore face.

## **ATTACHMENT X**

### **Logging and Test Data**

The closest well to extend into the proposed injection zone is the Hummingbird Federal #1 (API #30-015-33992) is located about 1.3 miles northwest in Unit J (NW/4, SE/4), Section 1, Township 17 South, Range 31 East. The well was drilled through the Wolfcamp and into the underlying Mississippian at 12,450 feet bgs. The well was determined to noncommercial and was plugged and abandoned. The attached records are from the Hummingbird Federal #1.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMLC031844

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side.**

8. Well Name and No.  
HUMMINGBIRD FEDERAL 1

9. API Well No.

10. Field and Pool, or Exploratory  
FREN

11. County or Parish, and State  
EDDY COUNTY, NM

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
BP AMERICA PRODUCTION COMPANY

Contact: SHERYAL JOSEPH  
E-Mail: josephsa@bp.com

3a. Address  
PO BOX 3092  
HOUSTON, TX 77253

3b. Phone No. (include area code)  
Ph: 281-366-4493  
Fx: 281-366-7688

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 1 T17S R31E NWSE Lot J 1900FSL 1550FEL  
32.51490 N Lat, 103.49080 W Lon

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Deepen
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Fracture Treat
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Well Integrity
	<input checked="" type="checkbox"/> Other
	Change to Original A
	PD
	<input type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Plug Back
	<input type="checkbox"/> Convert to Injection

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

This notice is being filed to amend surface location. Correct location for this well is 1880' FSL & 1550 FEL.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #53392 verified by the BLM Well Information System  
For BP AMERICA PRODUCTION COMPANY, sent to the Roswell  
Committed to AFMSS for processing by ARMANDO LOPEZ on 01/25/2005 (05AL0104SE)

Name (Printed/Typed) SHERYAL JOSEPH Title PERMITTING REPRESENTATIVE

Signature (Electronic Submission) Date 01/25/2005

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By /s/ Tony J. Herrell Title FIELD MANAGER Date MAR 07 2005

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

DISTRICT I  
1885 N. French Dr., Hobbs, NM 88240

Energy, Minerals &amp; Natural Resources Department

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT II  
P.O. Drawer 88, Lordsburg, NM 88311-0078

DISTRICT III  
1000 E. Brown St., Aztec, NM 87410

**OIL CONSERVATION DIVISION**  
2040 South Pacheco  
Santa Fe, NM 87505

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number	Pool Code 96663	Pool Name Fren (Morrow)
Property Code	Property Name HUMMINGBIRD FEDERAL	Well Number 1
OGRI No.	Operator Name BP AMERICA PRODUCTION COMPANY	Elevation 4023'

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	1	17 S	31 E		1880	SOUTH	1550	EAST	EDDY

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 32.0	Joint or Infill	Consolidation Code	Order No.
-------------------------	-----------------	--------------------	-----------

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**

<p>319.5 AC.</p> <p>Plane Coordinates X = 657,812.9 Y = 677,509.6</p> <p>4024.6' 4026.9' 1550' 4019.4' 4025.9' 1880'</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Sue Sellers</u> Signature SUE SELLERS Printed Name Regulatory Rep. Title 03/04/05 Date</p>
	<p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p>January 12, 2005 Date Surveyed Signature &amp; Seal of Professional Surveyor W.O. Num. 2004-0750 Certificate No. MAOON McDONALD 12185</p>
	<p><b>NOTE:</b></p> <p>1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.</p>

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-144  
June 1, 2004

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: <u>BP America Production Company</u> Telephone: <u>432-688-5799</u> e-mail address: <u>lowemj1@bp.com</u>		
Address: <u>PO Box 1610</u> <u>Midland, TX 79702</u>		
Facility or well name: <u>Hummingbird Federal 1</u> API #: <u>30-015-33792</u> U/L or Qtr/Qtr <u>    </u> Sec <u>1</u> T <u>17S</u> R <u>31E</u>		
County: <u>Eddy</u> Latitude <u>32° 51' 42.39"</u> Longitude <u>103° 49' 8.63"</u> NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>		
Surface Owner: Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>		
<b>Pit</b> Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>12</u> mil Clay <input type="checkbox"/> Pit Volume <u>14000</u> bbl	<b>Below-grade tank</b> Volume: <u>    </u> bbl Type of fluid: <u>    </u> Construction material: <u>    </u> Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: <u>    </u>	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more	( 0 points) 0
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points)
	No	( 0 points) 0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	( 0 points) 0
Ranking Score (Total Points)		0

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility     . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface      ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 3/4/2005

Printed Name/Title Margaret J Lowe, Sr. Environmental Engineer

Signature Margaret Lowe

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title Field Rep

Signature Field Rep

MAR 8 2005  
Date:

2004-0/50-A



A horizontal graphic scale bar with markings at 100, 0, 100, and 200 feet. The bar is divided into segments, with the first 100 feet marked with vertical lines and the next 100 feet marked with horizontal lines.

**HUMMINGBIRD FEDERAL #1**

**WEST  
COMPANY**  
of Midland, Inc.

110 W. LOUISIANA, STE. 110  
MIDLAND TEXAS, 79701  
(432) 687-0865 - (432) 687-0868 FAX

Drawn By: LVA	Date: October 25, 2004
Scale: 1"=100'	Field Book 287 / 29-31, 272 / 79-80
Revision Date: 1-13-2005	Quadrangle: Maljamar
W.O. No: 2004-0750	Dwg. No.: 1-2004-0750-A

**Attachment to BLM Form 3160-1:  
Proposed Surface Use Plan**

<b>Well Name:</b>	Hummingbird Federal #1
<b>Surface / Bottom Hole Location</b>	Section: 1, Township: 17S, Range: 31E 1880' FSL and 1550' FEL
<b>County, State</b>	Eddy County, New Mexico
<b>NM State Plane East Coordinates</b>	X: 657,912.9 Y: 677,509.6
<b>Ground Elevation</b>	4023'
<b>Proposed Depth:</b>	12,550' MD / TVD (Vertical Well)

**1. Directions to locations from Existing Roads:**

From the intersection of US HWY 33 and U.S Highway 82 in Maljamar, NM go west on U.S. HWY 82 (1.9) miles to a roadside park on North side of HWY 82 also being Supee Road Then Go Northeast along Supee road (1.4 miles) to County Road 252, go west on CR 252 (0.7 miles) to a proposed lease road (not yet built), go south along said proposed lease road (0.4 miles) to an existing well pad for Webb Oil Company's Arco Fed #2 well then continue south along a 10' wide caliche road (0.3 miles) to a marked point as the beginning of a proposed lease road (not built) go east along said proposed lease road (388') to the proposed southwest well pad corner for the proposed location .

**2. Planned Access Roads:**

Use existing roads and a plan to build access road to pad (shown on plat). Proposed access lease road (388') S 86°09'24" to the proposed southwest well pad corner for the proposed location .

**3. Location of Existing Wells:**

The existing wells within a 600' rectangle of this location are shown on the attached Survey Plat. No wells are shown. The attached vicinity map shows the existing wells in a 5 mile area.



#### **4. Location of Existing or Proposed Facilities:**

- Existing Facilities: No facilities currently exist for this well.
- New Facilities Proposed: If a successful Morrow producer is completed, surface facilities will consist of a Stack Pack, collection tanks for oil and water and possible wellhead compression. The location site for the proposed surface facilities will be on the existing well location.

#### **5. Location and Type of Water Supply:**

Fresh and brine water used in drilling and completion operations will be purchased from independent trucking companies located in Lovington, Artesia or Buckeye, New Mexico. The water will be hauled over existing roads to the location.

#### **6. Source of Construction Materials:**

Caliche for the well pad construction will be from the designated Caliche pit approximately 2 miles from the proposed location and will be haul on existing roads. This Caliche will be used for the 388' of proposed new road.

#### **7. Methods of Handling Waste Disposal:**

- Drill cuttings will be deep buried on location in the proposed reserve pit. The cuttings will be buried 3' or deeper and covered with a 40 mil liner, extending 3' from the edge of the pit (skirted all around pit).
- Trash, waste paper, garbage and junk will be contained in a fenced trash trailer to prevent scattering by the wind and hauled to a municipal sanitary landfill.
- The Mud supplier will pick up all sacked drilling mud. The empty sacks will be hauled off in the above mentioned trash trailer.
- The drilling contractor will haul away any chemicals that they use while drilling.
- Toilet facilities will be provided for human waste. Sewage disposal facilities will be in accordance with State and Local Regulations.
- Drilling fluids will be handled as follows: The free water will be either hauled to the reserve pit of the next drilling well for re-use or hauled to a permitted SWD. Any liquid mud that is hauled away it will be disposed of at an approved mud disposal site.
- Any fluids produced during swab testing the well while the pulling unit is on location will be collected in a test tank. Produced water will be hauled to a permitted SWD. Oil produced will remain in the test tank until sold and hauled from the site.

## **8. Auxiliary Facilities:**

No new facilities will be built during the drilling of this well. A trailer will be used as an office and temporary living quarters for well site supervision.

## **9. Well site Layout:**

- The attached survey plat shows the proposed well site layout and dimensions.
- Major rig components and reserve pits are not shown. The reserved pits are planned on the North side of location. The V-door on the east side of location. The access road on the SW (shown on plat).
- The reserve pits will be  $\pm 10'$  deep by 150' North and 100' Wide.
- The reserve pits will be lined with 12 mil web liner.
- Runway for the flare line and burn pit will be located on the North East of the location.
- Living Quarters on the South side of the location.

## **10. Plans for Reclamation of the Surface:**

- In a timely manner, after finishing the drilling and / or completion operations all equipment and other material not needed for production operations will be removed. The location will be cleared of all trash and debris. The cellar will be covered with a grating catwalk.
- Upon abandonment of the well, surface restoration will be in accordance with the surface owner requirements and will be accomplished as expediently as possible.

## **11. Surface Ownership:**

The surface owner for the well site locations is Louis Derrick, Bogel Farms, P.O.Box 441, Artesia, NM 88210. Surface owner approval has been obtained. The minerals are administered by the BLM.

## **12. Additional Information:**

- Topography: Gently rolling grassland with cap rock mesa formations.
- Vegetation includes Honey mesquite, creosote, broom snakeweed, various cacti, sand sage, various yucca and mixed grasses.
- Soils are of the Reeves-Gypsum land-Cottonwood association as defined by the Soil Conservation Service of the U.S. Department of Agriculture.

- Primary use of the land is livestock grazing and accessing producing wells.
- There are no dwellings in the vicinity.
- A BLM inspector has visited the proposed location.
- An Archeological Site Survey was done with with a BP company representative present and the land surveyor's present. The original proposed location was moved 100' south to stay clear of some archeological findings (broken pottery).
- The selected dirt contractor will be furnished with an approved copy of the Surface Use Plan and any additional stipulations prior to beginning any work.

### 13. Operator's Representatives:

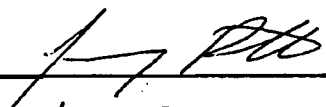
Joey Roth

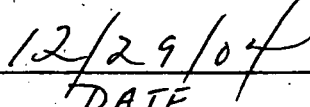
BP America Production Company

Senior Drilling Engineer  
Permian / Onshore U.S. Business Unit  
501 Westlake Park Blvd  
P.O.Box 3092 Houston, Texas 77253-3092

Work	281 - 366 - 1202
Cell	713 - 203 - 7428
Pager	888 - 903 - 7347

I hereby certify that I, or person under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct.

  
\_\_\_\_\_  
Joey Roth  
SR. Drilling Engineer

  
\_\_\_\_\_  
DATE

**Attachment to BLM Form 3160-1:  
Proposed Drilling Plan**

<b>Well Name:</b>	Hummingbird Federal #1
<b>Surface / Bottom Hole Location</b>	Section: 1, Township: 17S, Range: 31E 1880' FSL and 1550' FEL
<b>County, State</b>	Eddy County, New Mexico
<b>NM State Plane East Coordinates</b>	X: 657,912.9 Y: 677,509.6
<b>Ground Elevation</b>	4023'
<b>Proposed Depth:</b>	12,550' MD / TVD (Vertical Well)

**1. Surface Geological Formation:**

Yates Formation (Sand and Anhydrite)

**2. Estimated Tops of Geological Markers:**

<b>Formation</b>	<b>Estimated Top (MD/ TVD)</b>
Yates (Salt & Sand)	2000'
Queen	3,050'
San Andres	3,740'
Wolfcamp	8,925'
Strawn	11,360'
Atoka	11,640'
Morrow	11,920'
Lower Morrow	12,340'
Mississippian Lime, TD	12,450'

### 3. Estimated Tops of Possible Water, Oil, Gas or Mineral:

Formation	Estimated Top (MD/ TVD)	Hydrocarbon
Queen	3,050'	Oil
San Andres	3,740'	Oil
Atoka	11,640'	GAS
Morrow	11,920'	GAS
Lower Morrow	12,340'	GAS
Mississippian Lime, TD	12,450'	

### 4. Pressure Control Equipment:

Interval, (MD/TVD)	Pressure Control Equipment
0' - 400'	No Pressure Control Required
400' - TD (12,450' MD/TVD)	5M psi double ram preventer and 5M psi annular preventer

### 5. Proposed Casing and Cementing Program:

Casing	Hole Size	Interval MD	Casing Size	Weight/ Grade	Cement Sx / type
Conductor	Driven	40' <i>55'</i>	16"	42#	Redi-Mix
Surface	17 1/2"	0 - 650' <i>750'</i>	13 3/8"	48 # / H-40 / LTC	290 sx - class 'C'
Intermediate	11"	650' - 4,600' <i>750'</i>	8 5/8"	32# / J-55 / LTC	670 sx, 300 sx tail (14.8 ppg)
Production	7 7/8"	4600' - 12,550'	5 1/2"	17# / P-110	700 sx : class H - Poz mix

**WITNESS**

- All casing strings will be run back to surface.
- Production Hole Section (2 stage cement Job): TOC 8800'

## 6. Mud Program:

JS 12-14-04

750'

Depth	Mud Type	Weight	Funnel Vls.	Water Loss
0' - 650'	Spud Mud	8.4 - 8.9	29 - 34	NC
650' - 4,600'	Brine & Gel	10.0	28 - 30	NC
4,600' - 11,300'	Fresh Water & Gel	8.5 - 9.0	28 - 29	NC
11,300' - 12,550'	Cut Brine Gel & Polymer	10.0 - 10.2	34 - 44	8 - 10 cc

## 7. Auxiliary Equipment:

Upper Kelly Cock, Lower Kelly Cock, and Full Opening Stabbing Valve

## 8. Evaluation: Testing, Coring and Logging Program:

Evaluation Program		Interval
Open Hole Logs	GR, Density Neutron, Laterolog	4600' to TD (12,550')
Mud Log	10' dry samples	5000' to TD (12,550')
Samples	One set dry samples (10')	5000' to TD (12,550')
Cased Hole Logs	Possible Temperature log and/or CBL	As needed at casing points
DST	None Planned	
Conventional Cores	None Planned	

## 9. Anticipated Abnormal Temperature, Pressure, or Hazards:

All zones are expected to be normal pressured. Offset data shows 4500 psi @ 170 °F in the Morrow (8.94 ppg EMWT) No anticipated abnormal hazards were found when reviewing the offset well records.

#### **10. Anticipated Starting Date and Duration of Operations:**

The Notice to Stake was filed for the surface location and surveyed on 10/25/04. Pending permit approval, construction work on this location would begin in late Jan of 2005. With a planned spud date in early March 2005.

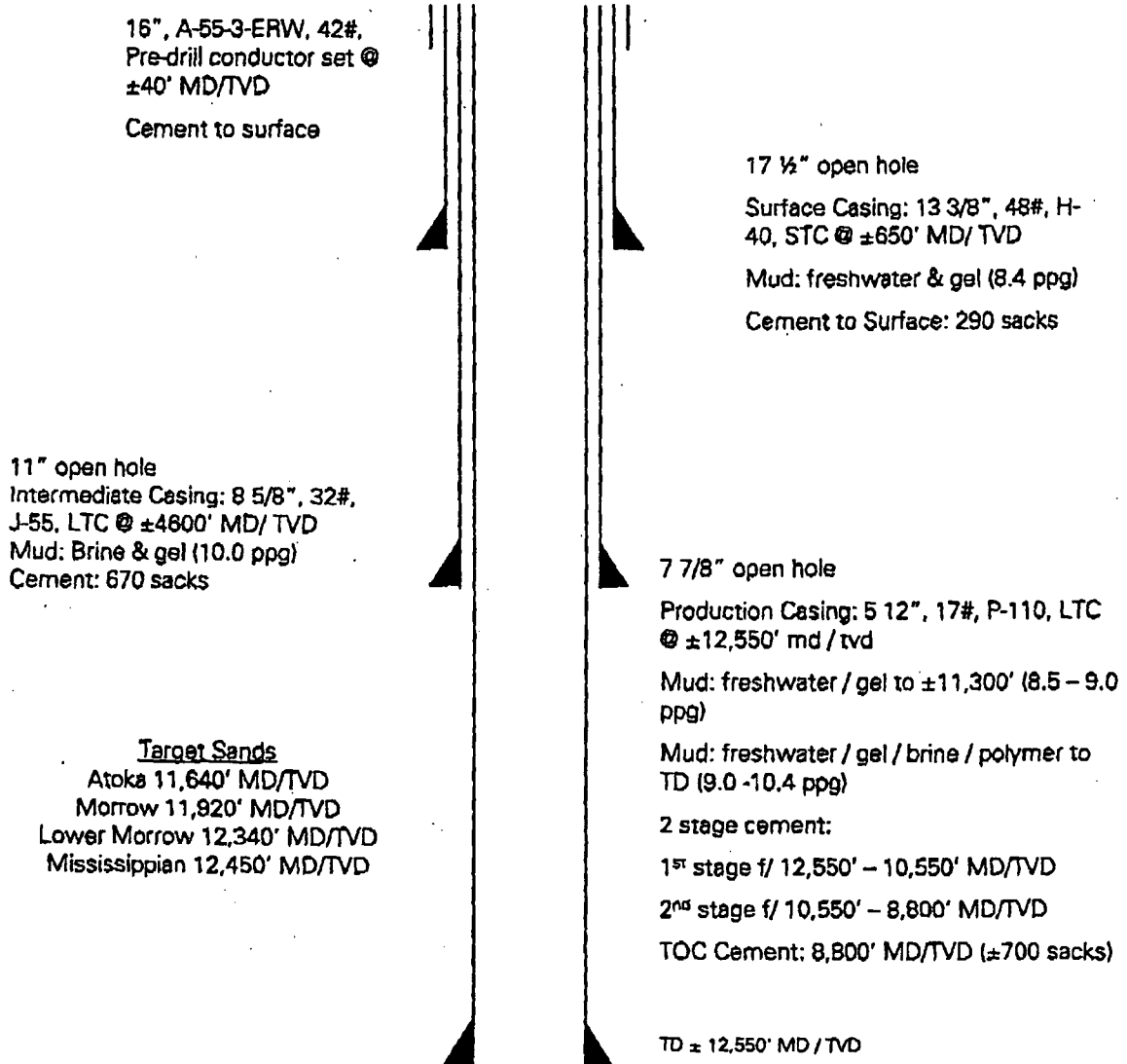
# Hummingbird Federal #1

Eddy County, New Mexico  
Section 1, T17S, R31E  
1880' FSL & 1550' FEL

## Proposed Casing Design

(not to scale)

Estimated GL Elevation: 4023'  
Estimated RKB: 4038'



revision4jr. 3/5/05



## **Drilling Procedure Summary**

1. Mobilize Nabors 399 to location. Rig up.
2. Drill 17 1/2" Surface hole to  $\pm 650'$  md / tvd.
3. Run and cement 13 5/8" surface casing to surface.
4. Nipple up wellhead and 13-5/8" 5M BOP stack
5. Test 13 5/8" 5M BOP stack, 1000 psi.
6. Test 13 3/8" casing to 1000 psi, hold 30 minutes.
7. Drill 11" hole to 4,600' md / tvd.
8. Run and cement 8 5/8" intermediate casing.
9. Nipple up wellhead and 13-5/8" 5M BOP stack
10. Test BOP's to 4000 psi.
11. Test 8 5/8" casing to 2000 psi.
12. Drill 7 7/8" hole to  $\pm 12,550'$  md / tvd.
13. Run wireline logs from  $\pm 4600'$  md / tvd to TD.
14. Run and cement (2 stages) 5 1/2" Production casing. Planned TOC  $\pm 8,800'$  md / tvd.
15. Nipple Down BOP&E
16. Install Dry Hole Tree
17. Move Drilling Rig Off location.

**Note:**

- A separate permit for completion will be filed.

## **Blowout Prevention and Testing Program**

### **1. Testing BOP's**

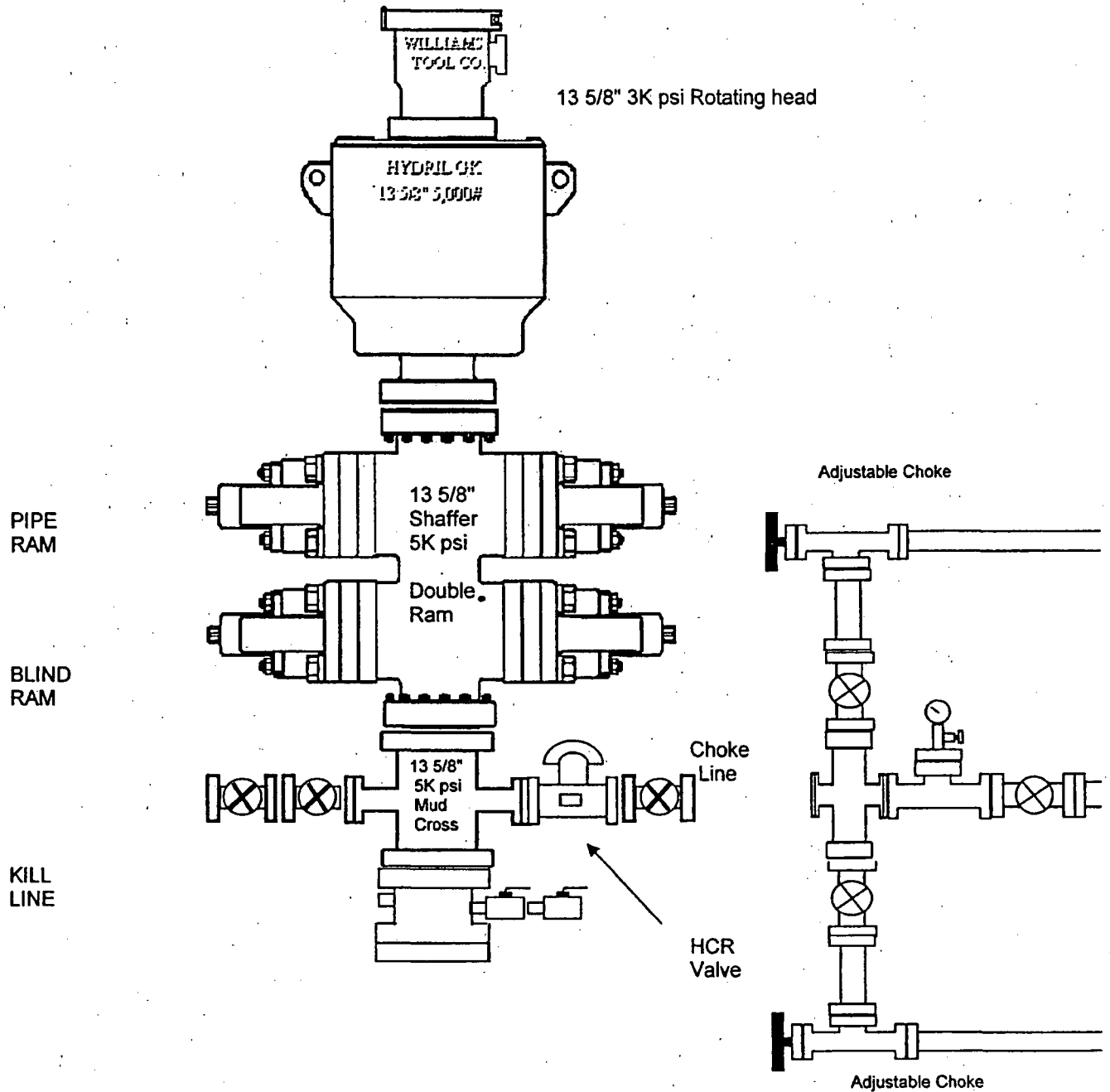
- Prior to any pressure testing, the area shall be isolated. Personnel shall be notified and / or evacuated.
- All pressure tests shall include a low-pressure test (200 – 300 psi) for 5 minutes before proceeding to the full pressure test.
- A satisfactory pressure test is represented by the test pressure held for a minimum of 5 minutes after the pressure has stabilized.
- The stack will be pressure tested when nipped up.
- The BOP's will be pressure and fully function tested every 14 days.
- All wellhead components and pressure containing connections will be pressure tested upon installation and re-tested on the connection break when changing out rams, any stack repair or installation of spools and section pieces in the wellhead.

### **2. Drilling Practices:**

- All drilling breaks shall be flow checked and reported.
- Prior to tripping out of the hole, the drilling fluid shall be circulated and flow checked before pulling off bottom.
- Flow check well on trips out of the hole at (a) after pulling into the casing shoe and (B) before the BHA enters the stack.
- Hole fill-up volumes shall be monitored on every trip in and out of the hole. Any deviation from expected hole fill-up volumes shall be investigated.
- Slow pump pressures with both pumps should be taken:
  - Once a day when drilling
  - Mud weight Increases
  - BHA changes
  - Prior to drilling out casing.

# Blow Out Preventer Stack Arrangement

Nabors Drilling: Rig #399



N.M. Oil Cons. DIV-Dist. 2  
1301 W. Grand Avenue  
UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
ALBUQUERQUE, NM 88210

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		<b>RECEIVED</b>  MAR 16 2005
2. Name of Operator BP AMERICA PRODUCTION COMPANY		
3a. Address P. O. BOX 3092, RM 6.115, HOUSTON, TX 77253	3b. Phone No. (and fax) 281-366-2052	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  SECTION 1-T17S-R31E; 1880' FSL & 1550' FEL; NE/4-SE/4-NW/4-SE/4; MER NMP SME: FEE		

5. Lease Serial No. NMLC031844
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. HUMMINGBIRD FEDERAL #1
9. API Well No. 30-015-33992
10. Field and Pool, or Exploratory Area FREN
11. County or Parish, State EDDY, NM

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>CHANGE OF OPERATOR</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**EFFECTIVE MARCH 9, 2005 - CHANGE OF OPERATOR FROM BP AMERICA PRODUCTION COMPANY TO:**

**OXY USA WTP, L.P.; P. O. BOX 50250, MIDLAND, TX 79710; ATTN: DAVID STEWART, 432-685-5600**

**APPROVED**

MAR 15 2005

LINDA A. ASKWIG  
BUREAU OF LAND MANAGEMENT  
ROSWELL FIELD OFFICE

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

SUE SELLERS

Title **REGULATORY STAFF ASSISTANT**

Signature *Sue Sellers*

Date **03/09/2005**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_  
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

District II  
1301 W. Grand Ave., Artesia, NM  
88210

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

Form C-104A  
Permit 8585

Change of Operator

Previous Operator Information

OGRID: 778  
Name: BP AMERICA PRODUCTION COMPANY  
Address: PO Box 3092  
Address:  
City, State, Zip: Houston, TX 77253

New Operator Information

Effective Date: 03/09/2005  
OGRID: 192463  
Name: OXY USA WTP LIMITED PARTNERSHIP  
Address: PO Box 4294 50250  
Address:  
City, State, Zip: ~~Houston, TX 77210-4294~~ Midland, TX 79701

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the certified list of wells is true to the best of my knowledge and belief.

Previous Operator

Signature: Sue Sellers  
Printed Name: SUE SELLERS  
Title: Regulatory Staff Assistant  
Date: 3/31/05 Phone: 281-366-2052

New Operator

Signature: David Stewart  
Printed Name: David Stewart  
Title: SR. Regulatory Analyst  
Date: 3/21/05 Phone: 432-665-5717

**NMOCD Approval**

Electronic Signature: Tim Gum, District II

Date: April 07, 2005

<http://www.emnrd.state.nm.us/ocdpermitting/C104AForm.aspx?PermitID=8585&District...> 03/21/2005

N.M. Oil Cons. DIV-Dist. 2  
UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
1301 W. Grand Avenue  
Alamogordo, NM 88210FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

RECEIVED

APR 12 2005

OCC-ALMESA

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

OXY USA WTP Limited Partnership

## 3a. Address

P.O. Box 50250, Midland, TX 79710-0250

## 3b. Phone No. (include area code)

432-685-5717

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1880 FSL 1550 FEL NWSE(J) Sec 1 T17S R31E

## 5. Lease Serial No.

NMLC031844

## 6. If Indian, Allottee or Tribe Name

## 7. If Unit or CA/Agreement, Name and/or No.

## 8. Well Name and No.

Hummingbird #1  
Federal

## 9. API Well No.

30-015-33992

## 10. Field and Pool, or Exploratory Area

Fren Morrow

## 11. County or Parish, State

Eddy NM

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

- ☒
- Notice of Intent
- 
- ☐
- Subsequent Report
- 
- ☐
- Final Abandonment Notice

## TYPE OF ACTION

- |  |   |  |  |
|--|---|--|--|
| <input type="checkbox"/> Acidize                 | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                |
| <input checked="" type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                |
| <input type="checkbox"/> Casing Repair           | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other <u>Amend</u> |
| <input checked="" type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | <u>intermediate csq</u>                                |
| <input type="checkbox"/> Convert to Injection    | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            | <u>and BOP program</u>                                 |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

OXY USA WTP LP respectfully requests to amend the APD for the Hummingbird Federal #1 as follows:

BOP PROGRAM: 0 - 750' None  
750 - 4600' 13-3/8" 3M annular preventer, to be used as divertor only.  
4600 - 12550' 11" 5M blind pipe rams with 5M annular preventer and rotating head below 8500'.

## CASING:

Intermediate: 9 5/8" OD 36# K55 ST&amp;C new casing from 0-4600', 12-1/4" hole

APPROVED

APR -8 2005

LES BABYAK  
PETROLEUM ENGINEER14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

David Stewart

## Title

Sr. Regulatory Analyst

## Date

3/3/05

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

## Approved by

## Title

## Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

## Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

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RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on reverse side MAY 31 2005

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

OXY USA WTP Limited Partnership

3a. Address

P.O. Box 50250, Midland, TX 79710-0250

3b. Phone No. (include area code)

432-685-5717

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1880 FSL 1550 FEL NWSE(J) Sec 1 T17S R31E

5. Lease Serial No.

NMLC031844

6. If Indian, Allottee or Tribe Name

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8. Well Name and No.

Hummingbird #1  
Federal

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Fren Morrow

11. County or Parish, State

Eddy NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- |   |   |  |  |
|---|---|--|--|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                    |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                    |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other <u>Spud. set</u> |
| <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporary Abandon         | <u>casing &amp; cement</u>                                 |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |  |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

See Attached

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

David Stewart

Title

Sr. Regulatory Analyst

Date

5/26/05

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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**HUMMINGBIRD FEDERAL #1**

**05/11/2005** CMIC: DURAN

SURVEYOR STAKED LOCATION AT 1880' FSL, 1550' FEL SECTION 1, T17S, R31E, EDDY CTY NM. BUILT ROAD AND LOCATION. DUG & LINED RESERVE PIT. SET 20" CONDUCTOR TO 40' AND CEMENTED WITH REDI-MIX. DRILLED RAT & MOUSE HOLES. START TO MIRU PATTERSON 508.

**05/12/2005** CMIC: DURAN

FINISH RIG UP. WORK ON #1 PUMP. REPACK SWIVEL. SPUDDED AT 3:00 AM 5-12-05. DRILLING AHEAD AT REPORT TIME. NOTIFIED BLM OF SPUD ON 5-12-05.

**05/13/2005** CMIC: DURAN

DRILLING TO TD, 765', W/ SURVEYS. REACHED TD AT 3:15 AM 5-13-05. PUMP SWEEP & CIRCULATE. DROP TOTCO. TOOH AT REPORT TIME FOR CASING.

**05/14/2005** CMIC: DURAN

FINISH TRIP OUT OF HOLE. RU CASING CREW & HOLD SAFETY MEETING. RUN 18 JOINTS 13 3/8" 48# H-40 ST&C CASING. TOTAL PIPE 770.07' SET AT 765'. CIRCULATE CASING VOLUME WITH RIG PUMP. RU HALLIBURTON & CEMENT WITH 500 SX HALLIBURTON LITE LEAD & TAILED WITH 300 SX PREMIUM PLUS. CIRCULATED 464 SX TO RESERVE. PUMPED PLUG WITH 500 PSI. WOC. CUT OFF CONDUCTOR & CASING. WELD ON STARTING HEAD & TEST TO 500 PSI. OK. NIPPLE UP BOP AT REPORT TIME. CLARK BENNETT W/ BLM WITNESSED CEMENT JOB.

**05/15/2005** CMIC: DURAN

FINISH NIPPLE UP. CUT DRILLING LINE. PU BHA & TRIP IN HOLE. TEST CASING & HYDRILL TO 1000 PSI. DRILLING CEMENT & BALLE. DRILLING NEW FORMATION AT 12:00 PM 5-14-05. DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

**05/16/2005** CMIC: DURAN

DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

**05/17/2005** CMIC: DURAN

DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS

**05/18/2005** CMIC: DURAN

DRILLING TO 2949'. PUMP SOFTLINE & TRIP FOR PRESSURE LOSS. FOUND HOLE IN DRILL PIPE 20 STANDS & A DOUBLE. TRIP IN HOLE DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS

**05/19/2005** CMIC: DURAN

DRILLING TO 3447'. TRIP FOR PRESSURE LOSS. HOLES IN MIDDLE OF 12TH STAND & TOP OF 25TH STAND. TRIP IN HOLE. COULD NOT GET PAST 730'. CASING POSSIBLY PARTED. TOH & LD BHA. TRIP IN HOLE WITH SLICK BHA. HIT SPOT AT 730', TURNED BIT & FELL THRU. TRIP IN HOLE. CIRCULATE HOLE. DRILLING AHEAD AT REPORT TIME.

**05/20/2005** CMIC: DURAN

DRILLED TO 3682' AND LOST PUMP PRESSURE. PUMPED SOFT LINE. TOOH AND FOUND SPLIT IN THE TOP OF THE 91ST JOINT. RBIH WITH BIT. DRILLING AHEAD WITH NO PROBLEMS.

**05/21/2005** CMIC: DURAN

DRILLED TO 3956' AND LOST PUMP PRESSURE. PUMPED SOFT LINE. TOOH AND FOUND HOLE IN THE 93RD JOINT. RBIH WITH BIT. DRILLED TO 4007' AND LOST PUMP PRESSURE. PUMPED SOFT LINE. TOOH AND FOUND HOLE IN THE 97TH JOINT. RBIH WITH BIT. DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

**05/22/2005** CMIC: DURAN

DRILLED TO 4448' AND LOST PUMP PRESSURE. PUMPED SOFT LINE. TOOH AND FOUND SPLIT JOINT. RBIH WITH BIT. DRILLED TO CASING POINT OF 4600'. RAN FLUID CALIPER FOR CEMENT CALCULATIONS. CIRCULATING AT REPORT TIME TO RUN CASING.



05/23/2005 CMIC: LOVE

FINISHED CIRCULATING. TOO H WITH D.P. TO DC'S. R.U. L.D. MACHINE. TOO H AND L.D. 8" DC'S AND BHA. R.U. CASING CREW. HELD SAFETY MEETING. RIH WITH 9 5/8" CASING AND TAGGED UP AT 728' AND COULD NOT GET DEEPER. TOO H AND L.D. CASING. R.D. CASING CREW. W/O TOOLS. TIH WITH TAPERED MILL, JARS ON 8" DC'S. MILLING OUT BAD SPOT AT 728' AT REPORT TIME.

05/24/2005 CMIC: LOVE

FINISHED MILLING OUT CASING. TOO H AND L.D. TOOLS. R.U. L.D. MACHINE AND CASING CREW. RAN 108 JOINTS 9 5/8" CASING AND SET AT 4600'. CLEARED CASING WITH RIG PUMP. R.U. HOWCO. CEMENTED WITH 1280 SX INTERFILL C AND TAILED IN WITH 250 SX CLASS C WITH 2% CACL2. DISPLACED CEMENT WITH F.W. P.D. AT 2015 HOURS MST 5-23-05 WITH 2000#. CIRCULATED 103 SX TO PIT. RELEASED PRESSURE AND FLOAT HELD O.K. R.D. HOWCO. P.U. BOP AND SET SLIPS WITH 140,000#. CUT OFF CASING. NU 13 5/8" 3-M BY 11" 5-M "B" SECTION. TESTED TO 500#. O.K. NU BOP AT REPORT TIME. BOB WITH BLM NOTIFIED OF CEMENT JOB BUT DID NOT WITNESS.

05/25/2005 CMIC: LANGE

FINISHED NU BOP AND CHOKE MANIFOLD. TESTED BLIND RAMS, PIPE RAMS, CHOKE LINES, CHOKE MANIFOLD AND ALL SAFETY VALVES TO A HIGH OF 5000# AND LOW OF 300#. TESTED HYDRIL AND MUD LINES TO 2500#. TESTED CASING TO 1000#. TIH WITH BIT AND BHA. DRILLED CEMENT AND SHOE. DRILLED 10' FORMATION TO 4610'. TESTED SHOE TO AN EMW OF 11.5 PPG. DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTN.M. Oil Cons. Div. - District 2  
1901 W. Grand Avenue  
Alamosa, NM 88210FORM APPROVED  
OMB NO. 1004-0137  
Expires: November 30, 2000

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG 88210

1a. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Other						5. Lease Serial No. NMLC031844			
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other						6. If Indian, Allottee or Tribe Name			
2. Name of Operator OXY USA WTP Limited Partnership						7. Unit or CA Agreement Name and No.			
3. Address P.O. Box 50250 Midland, TX 79710-0250				3a. Phone No. (include area code) 432-685-5717		8. Lease Name and Well No. Hummingbird Federal #1			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 1880 FSL 1550 FEL NWSE(J)  At top prod. interval reported below  At total depth						9. API Well No. 30-015-33992			
RECEIVED AUG 17 2005 OCU-ARTESIA						10. Field and Pool, or Exploratory Fren Morrow			
						11. Sec., T., R., M., or Block and Survey or Area Sec 1 T17S R31S			
14. Date Spudded 5/12/05		15. Date T.D. Reached 6/29/05		16. Date Completed <input checked="" type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod. 7/2/05		12. County or Parish Eddy			
						13. State NM			
18. Total Depth: MD TVD 12538'		19. Plug Back T.D.: MD TVD		20. Depth Bridge Plug Set: MD TVD		17. Elevations (DF, RKB, RT, GL)* 4025'			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CZDL/DSL/DLL/MLL/CNL/GR						22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)			
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt.(#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8"	48#	0	765'		800sx		Surf-Circ	N/A
12-1/4"	9-5/8"	36#	0	4600'		1530sx		Surf-Circ	N/A
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
25. Producing Intervals					26. Perforation Record				
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A)									
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval	Amount and Type of Material								
	Approved as to plugging of the well bore. Liability under bond is retained until surface restoration is completed.								
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

## 28c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

## 29. Disposition of Gas (Sold, used for fuel, vented, etc.)

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				Wolfcamp	8800'
				Strawn	11465'
				Atoka	11717'
				Morrow	11985'

## 32. Additional remarks (include plugging procedure):

RIH w/ OE DP to 11985', spot 85sx CL H. POOH to 8800', spot 105sx C1 H cmt. POOH to 4650', spot 50sx C1 C cmt. POOH to 815', spot 35sx C1 C cmt. POOH, spot 25sx surface plug.

## 33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd)    2. Geologic Report    3. DST Report    4. Directional Survey  
5. Sundry Notice for plugging and cement verification    6. Core Analysis    7. Other

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) David StewartTitle Sr. Regulatory AnalystSignature Date 6/10/05

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: November 30, 2000

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☐ Gas Well ☒ Dry Other  
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,  
Other

2. Name of Operator

OXY USA WTP Limited Partnership

3. Address

P.O. Box 50250 Midland, TX 79710-0250

3a. Phone No. (include area code)

192463  
432-685-5717

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface 1880 FSL 1550 FEL NWSE(J)

At top prod. interval reported below

At total depth

RECEIVED

AUG 09 2005

OCU-AMTEGIA

5. Lease Serial No.

NMLC031844

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.

Hummingbird Federal #1

9. API Well No.

30-015-33992

10. Field and Pool, or Exploratory  
Fren Morrow11. Sec., T., R., M., or Block and  
Survey or Area  
Sec 1 T17S R31S

12. County or Parish

Eddy

13. State

NM

17. Elevations (DF, RKB, RT, GL)\*

4025'

14. Date Spudded

5/12/05

15. Date T.D. Reached

6/29/05

16. Date Completed

☒ D & A☐ Ready to Prod.

7/2/05

18. Total Depth: MD

TVD

12538'

19. Plug Back T.D.: MD

TVD

20. Depth Bridge Plug Set: MD

TVD

21. Type Electric &amp; Other Mechanical Logs Run (Submit copy of each)

CZDL/DSL/DLL/MLL/CNL/GR

22. Was well cored? ☒ No ☐ Yes (Submit analysis)Was DST run ☒ No ☐ Yes (Submit report)Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt.(#R.)	Top (MD)	Bottom (MD)	Stage Cement Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8"	48#	0	765'		800sx		Surf-Circ	N/A
12-1/4"	9-5/8"	36#	0	4600'		1530sx		Surf-Circ	N/A

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)						
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

28a. Production-Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

(See instructions and spaces for additional data on reverse side)

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

## 28c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				Wolfcamp	8800'
				Strawn	11465'
				Atoka	11717'
				Morrow	11985'

## 32. Additional remarks (include plugging procedure):

RIH w/ OE DP to 11985'. spot 85sx CL H. POOH to 8800', spot 105sx C1 H cmt. POOH to 4650', spot 50sx C1 C cmt. POOH to 815', spot 35sx C1 C cmt. POOH, spot 25sx surface plug.

## 33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd)    2. Geologic Report    3. DST Report    4. Directional Survey  
5. Sundry Notice for plugging and cement verification    6. Core Analysis    7. Other

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) David StewartTitle Sr. Regulatory AnalystSignature Date 6/10/05

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
OXY USA WTP Limited Partnership

3a. Address  
P.O. Box 50250, Midland, TX 79710-0250

3b. Phone No. (include area code)  
432-685-5717

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1880 FSL 1550 FEL NWSE(J) Sec 1 T17S R31E

5. Lease Serial No.

NMLC031844

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Hummingbird #1  
Federal

9. API Well No.

30-015-33992

10. Field and Pool, or Exploratory Area

Fren Morrow

11. County or Parish, State

Eddy NM

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**TYPE OF SUBMISSION**

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

See Attached

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)  
David Stewart

Title

Sr. Regulatory Analyst

Date

8/2/05

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# **HUMMINGBIRD FEDERAL #1**

**05/11/2005** CMIC: DURAN

SURVEYOR STAKED LOCATION AT 1880' FSL, 1550' FEL SECTION 1, T17S, R31E, EDDY CTY NM. BUILT ROAD AND LOCATION. DUG & LINED RESERVE PIT. SET 20" CONDUCTOR TO 40' AND CEMENTED WITH REDI-MIX. DRILLED RAT & MOUSE HOLES. START TO MIRU PATTERSON 508.

**05/12/2005** CMIC: DURAN

FINISH RIG UP. WORK ON #1 PUMP. REPACK SWIVEL. SPUDDED AT 3:00 AM 5-12-05. DRILLING AHEAD AT REPORT TIME. NOTIFIED BLM OF SPUD ON 5-12-05.

**05/13/2005** CMIC: DURAN

DRILLING TO TD, 765', W/ SURVEYS. REACHED TD AT 3:15 AM 5-13-05. PUMP SWEEP & CIRCULATE. DROP TOTCO. TOO H AT REPORT TIME FOR CASING.

**05/14/2005** CMIC: DURAN

FINISH TRIP OUT OF HOLE. RU CASING CREW & HOLD SAFETY MEETING. RUN 18 JOINTS 13 3/8" 48# H-40 ST&C CASING. TOTAL PIPE 770.07' SET AT 765'. CIRCULATE CASING VOLUME WITH RIG PUMP. RU HALLIBURTON & CEMENT WITH 500 SX HALLIBURTON LITE LEAD & TAILED WITH 300 SX PREMIUM PLUS. CIRCULATED 464 SX TO RESERVE. PUMPED PLUG WITH 500 PSI. WOC. CUT OFF CONDUCTOR & CASING. WELD ON STARTING HEAD & TEST TO 500 PSI. OK. NIPPLE UP BOP AT REPORT TIME. CLARK BENNETT W/ BLM WITNESSED CEMENT JOB.

**05/15/2005** CMIC: DURAN

FINISH NIPPLE UP. CUT DRILLING LINE. PU BHA & TRIP IN HOLE. TEST CASING & HYDRILL TO 1000 PSI. DRILLING CEMENT & BALLE. DRILLING NEW FORMATION AT 12:00 PM 5-14-05. DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

**05/16/2005** CMIC: DURAN

DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

**05/17/2005** CMIC: DURAN

DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS

**05/18/2005** CMIC: DURAN

DRILLING TO 2949'. PUMP SOFTLINE & TRIP FOR PRESSURE LOSS. FOUND HOLE IN DRILL PIPE 20 STANDS & A DOUBLE. TRIP IN HOLE DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS

**05/19/2005** CMIC: DURAN

DRILLING TO 3447'. TRIP FOR PRESSURE LOSS. HOLES IN MIDDLE OF 12TH STAND & TOP OF 25TH STAND. TRIP IN HOLE. COULD NOT GET PAST 730'. CASING POSSIBLY PARTED. TOH & LD BHA. TRIP IN HOLE WITH SLICK BHA. HIT SPOT AT 730', TURNED BIT & FELL THRU. TRIP IN HOLE. CIRCULATE HOLE. DRILLING AHEAD AT REPORT TIME.

**05/20/2005** CMIC: DURAN

DRILLED TO 3682' AND LOST PUMP PRESSURE. PUMPED SOFT LINE. TOO H AND FOUND SPLIT IN THE TOP OF THE 91ST JOINT. RBIH WITH BIT. DRILLING AHEAD WITH NO PROBLEMS.

**05/21/2005** CMIC: DURAN

DRILLED TO 3956' AND LOST PUMP PRESSURE. PUMPED SOFT LINE. TOO H AND FOUND HOLE IN THE 93RD JOINT. RBIH WITH BIT. DRILLED TO 4007' AND LOST PUMP PRESSURE. PUMPED SOFT LINE. TOO H AND FOUND HOLE IN THE 97TH JOINT. RBIH WITH BIT. DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

**05/22/2005** CMIC: DURAN

DRILLED TO 4448' AND LOST PUMP PRESSURE. PUMPED SOFT LINE. TOO H AND FOUND SPLIT JOINT. RBIH WITH BIT. DRILLED TO CASING POINT OF 4600'. RAN FLUID CALIPER FOR CEMENT CALCULATIONS. CIRCULATING AT REPORT TIME TO RUN CASING.

**05/23/2005 CMIC: LOVE**

FINISHED CIRCULATING. TOO H WITH D.P. TO DC'S. R.U. L.D. MACHINE. TOO H AND L.D. 8" DC'S AND BHA. R.U. CASING CREW. HELD SAFETY MEETING. RIH WITH 9 5/8" CASING AND TAGGED UP AT 728' AND COULD NOT GET DEEPER. TOO H AND L.D. CASING. R.D. CASING CREW. W/O TOOLS. TIH WITH TAPERED MILL, JARS ON 8" DC'S. MILLING OUT BAD SPOT AT 728' AT REPORT TIME.

**05/24/2005 CMIC: LOVE**

FINISHED MILLING OUT CASING. TOO H AND L.D. TOOLS. R.U. L.D. MACHINE AND CASING CREW. RAN 108 JOINTS 9 5/8" CASING AND SET AT 4600'. CLEARED CASING WITH RIG PUMP. R.U. HOWCO. CEMENTED WITH 1280 SX INTERFILL C AND TAILED IN WITH 250 SX CLASS C WITH 2% CACL<sub>2</sub>. DISPLACED CEMENT WITH F.W. P.D. AT 2015 HOURS MST 5-23-05 WITH 2000#. CIRCULATED 103 SX TO PIT. RELEASED PRESSURE AND FLOAT HELD O.K. R.D. HOWCO. P.U. BOP AND SET SLIPS WITH 140,000#. CUT OFF CASING. NU 13 5/8" 3-M BY 11" 5-M "B" SECTION. TESTED TO 500#. O.K. NU BOP AT REPORT TIME. BOB WITH BLM NOTIFIED OF CEMENT JOB BUT DID NOT WITNESS.

**05/25/2005 CMIC: LANGE**

FINISHED NU BOP AND CHOKE MANIFOLD. TESTED BLIND RAMS, PIPE RAMS, CHOKE LINES, CHOKE MANIFOLD AND ALL SAFETY VALVES TO A HIGH OF 5000# AND LOW OF 300#. TESTED HYDRIL AND MUD LINES TO 2500#. TESTED CASING TO 1000#. TIH WITH BIT AND BHA. DRILLED CEMENT AND SHOE. DRILLED 10' FORMATION TO 4610'. TESTED SHOE TO AN EMW OF 11.5 PPG. DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.



OPERATOR OXY USA, WTP  
WELL/LEASE Hummingbird Fed #1  
COUNTY Eddy, NM

508-0084

STATE OF NEW MEXICO  
DEVIATION REPORT

232	1/4
469	3/4
742	1/2
1,236	3/4
1,711	1/2
2,186	1/4
2,665	3/4
3,142	1/4
3,551	1/4
4,026	1/4
4,600	1/4
5,012	1/2
5,485	1/2
5,963	3/4
6,436	1/2
6,910	1/4
7,385	1/4
7,857	1/4
7,947	1/2
8,429	1
8,903	1 1/4
9,406	1
9,903	1/4
10,379	1/2
10,856	3/4
11,142	1
11,616	1/4
12,103	1 1/2
12,538	1

BY: 

STATE OF TEXAS  
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on July 13, 2005, by Steve Moore on behalf of Patterson - UTI Drilling Company, LP, LLLP.

  
Notary Public for Midland County, Texas  
My Commission Expires: 8/23/07



J ROBERTSON  
Notary Public, State of Texas  
My Commission Expires:  
August 23, 2007

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-144  
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Oxy USA WTP Limited Partnership Telephone: 505-397-0510 e-mail address: ballen@sesi-nm.com		
Address: 4008 North Grimes PMB 269, Hobbs, New Mexico 88240		
Facility or well name: Hummingbird Federal #1 API #: 30-015-33992 U/L or Qtr/Qtr J Sec 1 T 17S R 31E		
County: Eddy Latitude 32°51'42.39"N Longitude 103°49'8.63"W NAD: 1927 X 1983 <input type="checkbox"/>		
Surface Owner: Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>		
<b>Pit</b> Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness 12 mil Clay <input type="checkbox"/> Pit Volume 14,000 bbl	<b>Below-grade tank</b> Volume: bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not.	<b>RECEIVED</b> MAY 01 2006 OIL CONSERVATION DIVISION
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 points) XXXX	
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) No (0 points) XXXX	
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points) XXXX	
Ranking Score (Total Points)		0 points

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface ft. and attach sample results.

(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: Closure work plan for drilling pit. Category 2 location: The drilling pit contents will be excavated from the pit area.  
If there is evidence of contamination, the soil will be tested by lab and if contamination is confirmed, further remediation will be conducted according to guidelines. A trench will be installed. The trench will be lined with a 12-mil impervious liner and the excavated material will be placed on top. The trench will then be encapsulated with 20-mil liner. The excavated pit will be backfilled with clean soil and the pit area as well as the trench will be covered and contoured with three feet of soil or like material capable of supporting native plant growth to prevent erosion and ponding of rainwater.  
A one call and a 48 hour notice will be provided to the Oil Conservation Division.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit X or an (attached) alternative OCD-approved plan ☐.

Date: 2-1-06

Printed Name/Title: Bob Allen/ Consultant

Signature: 

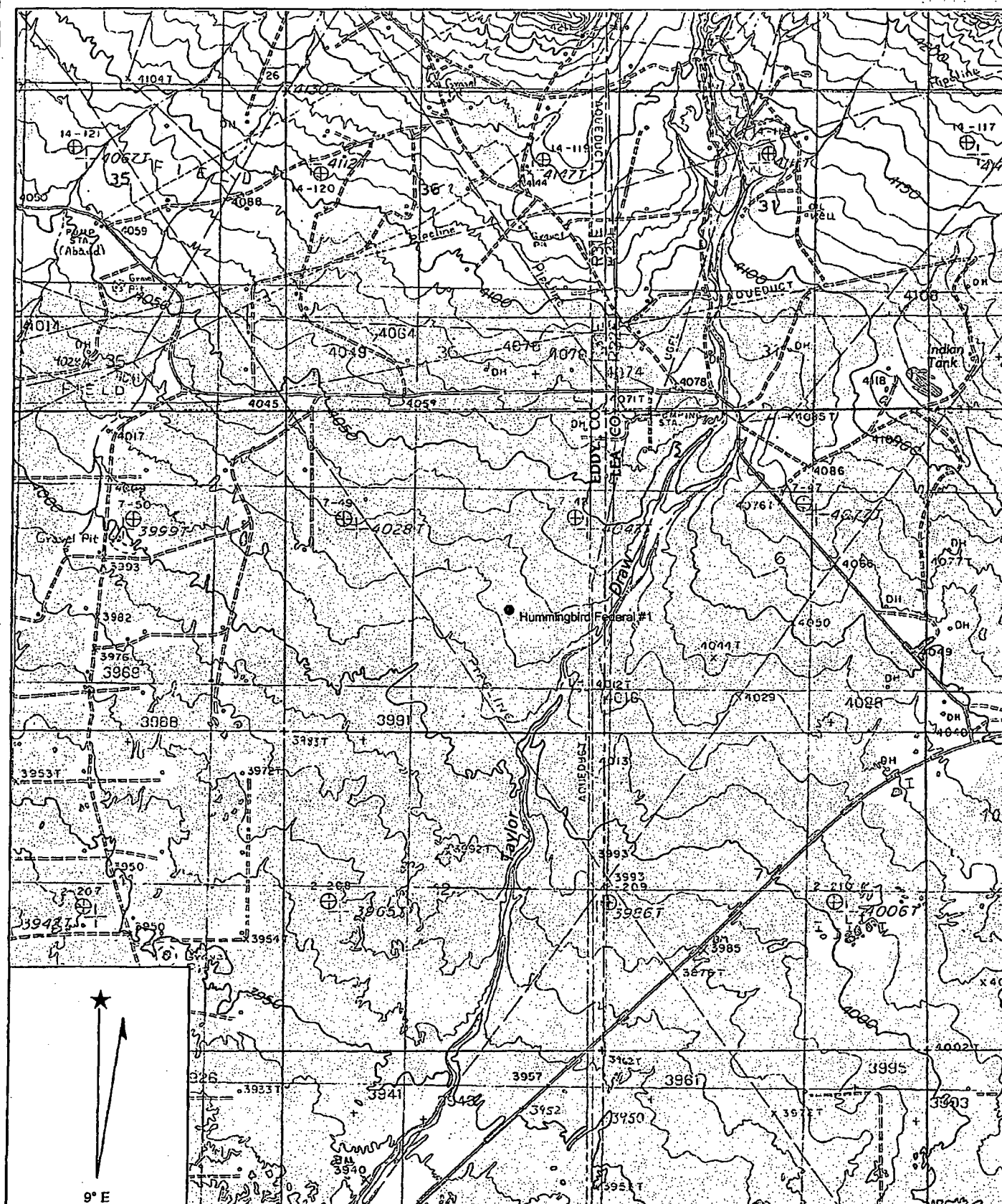
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title:

Signature: 

Date: MAY 03 2006



Name: MALJAMAR  
 Date: 2/7/2008  
 Scale: 1 inch equals 2000 feet

Location: 032° 51' 42.31" N 103° 49' 9.30" W  
 Caption: Hummingbird Federal #1  
 Unit J, Sec 1, T17S, R31E  
 Eddy County, New Mexico

Form 3160-4  
(August 1999)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

BLM - CARLSBAD

FORM APPROVED  
OMB NO. 1004-0137  
Expires: November 30, 2000

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. NMLC031844							
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resrv., Other		6. If Indian, Allottee or Tribe Name							
2. Name of Operator OXY USA WTP Limited Partnership		7. Unit or CA Agreement Name and No							
3. Address P.O. Box 50250 Midland, TX 79710-0250		8. Lease Name and Well No. Hummingbird Federal #1							
3a. Phone No. (include area code) 432-685-5717		9. API Well No. 30-015-33992							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 1880 FSL 1550 FEL NWSE(J)		10. Field and Pool, or Exploratory Fren Morrow							
At top prod. interval reported below		11. Sec., T., R., M., or Block and Survey or Area Sec 1 T17S R31S							
At total depth		12. County or Parish Eddy							
14. Date Spudded 5/12/05		13. State NM							
15. Date T.D. Reached 6/29/05		17. Elevations (DF, RKB, RT, GL)* 4025'							
16. Date Completed <input checked="" type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod. 7/2/05									
18. Total Depth: MD TVD 12538'		20. Depth Bridge Plug Set: MD TVD							
19. Plug Back T.D.: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CZDL/DSL/DLL/MLL/CNL/GR							
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)									
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Shurry Vol (BBL)	Cement Top*	Amount Pulled
17-1 1/2"	13-3/8"	48#	0	765'		800sx		Surf-Circ	N/A
12-1 1/4"	9-5/8"	36#	0	4600'		1530sx		Surf-Circ	N/A
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
25. Producing Intervals									
Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status			
A)									
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval	Amount and Type of Material								
	Approved as to plugging of this well bore.								
	Liability under bond is retained until								
	surface restoration is completed.								
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flow SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flow SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

APPROVED

AUG 15 2005

LES BABYAK  
PETRO-FLUM ENGINEER

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Fwgs. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Fwgs. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	

29 Disposition of Gas (Sold, used for fuel, vented, etc.)

## 30 Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				Wolfcamp	8800'
				Strawn	11465'
				Atoka	11717'
				Morrow	11985'

## 32. Additional remarks (include plugging procedure):

RIH w/ OE DP to 11985', spot 85sx CL H. POOH to 8800', spot 105sx C1 H cmt. POOH to 4650', spot 50sx C1 C cmt. POOH to 815', spot 35sx C1 C cmt. POOH. spot 25sx surface plug.

## 33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd)    2. Geologic Report    3. DST Report    4. Directional Survey  
5. Sundry Notice for plugging and cement verification    6. Core Analysis    7. Other

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) David StewartTitle Sr. Regulatory AnalystSignature Date 6/01/05

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

//01/2005 08:05 FAX 505 627 0

BUREAU OF LAND NGI

CFO T&amp;E

001

Memo: OXY USA WTP  
Hummingbird Federal # 1  
Section 1, T17S R31E  
Eddy County, New Mexico  
LC-031844

From: Alexis C. Swoboda

Date: July 1, 2005

Subject: Plug and abandonment

Casing: 13-3/8" @ 765', circulated.  
9-5/8" @ 4600', circulated.  
TD 12,538'


Tops: Wolfcamp 8800'  
Strawn 11,465'  
Atoka 11,717'  
Morrow 11,985'  
Chester 12,520'

Recommended plugs:

200' at T/Morrow  
200' at T/Wolfcamp  
100' at 4650-4550' - intermediate shoe  
100' at 815-715' - surface shoe  
60' - surface plug

Contact I&E at CFO when ready.

OXY contact is Bob Lang, 432-661-6404.

  
Alexis Swoboda, RFO  
7/1/2005

I & E CFO

## **ATTACHMENT XI**

### **Chemical Analysis from Fresh Water Well**

No fresh water wells are present within 1 mile of the proposed SWD therefore no chemical analysis is available.

## ATTACHMENT XII

### Faults and Hydraulic Connections Statement

I, Mark J. Larson, have reviewed 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.

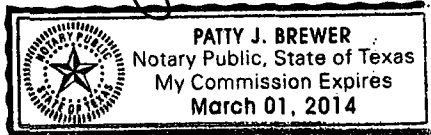
State of Texas

County of Midland

On this 7<sup>th</sup> day of September 1012, before me a notary public, the undersigned officer, personally appeared, Mark J. Larson, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

*Patty J. Brewer*





## **ATTACHMENT XIII**

### **Proof of Notice**

Notification was sent on September 10, 2012 via certified mail to the following entities:

Hudson Oil Company of Texas

908 NW 71<sup>st</sup>

Oklahoma City, OK 73116

Cimarex Energy Co.

600 N. Marienfeld St., Ste 600

Midland, Texas 79701

Conoco Inc.

Oasis 1026

Houston, Texas 77252-2197

COG Operating, LLC

550 W. Texas Suite 1300

Midland, TX 79701

Mack Energy Corp

11352 Lovington Hwy

Artesia, NM 88211

Tandem Energy Corporation

11490 Westheimer Road, Suite 1000

Houston, Texas 77084

Linn Operating, Inc.

600 Travis Street, Suite 5100

Houston, Texas 77002

Alamo Permian Resources, LLC

415 W. Wall Street, Suite 500

Midland, Texas 79701

**FAX**

**DATE:** September 13, 2012  
**ATT:** Hobbs New Sun – Classifieds - Legal  
**FAX:** (575) 393-0275  
**FROM:** Mark J. Larson

**PAGES (with cover):** 2

**Re: Legal Notice for One-Time Publication in Hobbs New Sun**

---

Please the attached legal notice for one time publication in the Hobbs News Sun. Please send me the affidavit following publication. You may contact me at (432) 687-0901 if you questions.

Sincerely,  
Mark J. Larson

**Larson & Associates, Inc.  
507 N. Marienfeld St., Suite 200  
Midland, Texas 79701**

**Please call Mark J. Larson at (432) 687-0901 if this transmittal is not legible.**

## PUBLIC NOTICE

R360 Permian Basin, LLC, a wholly owned subsidiary of R360 Environmental Solutions, Inc., 16945 Northchase Drive, Suite 2200, Houston, Texas, 77060, has submitted an application to the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division for a commercial salt water disposal (SWD) well at its Artesia facility (formerly Artesia Aeration, LLC). The well will be located 232' FNL and 288' FEL, in Unit A (NE ¼, NE ¼), Section 7, Township 17 South, Range 32 East, in Lea County, New Mexico. The well will be located approximately 2 miles west of Maljamar, New Mexico. The well is proposed to reinject produced and frac water into the Wolfcamp between 8,820' and 10,000'. Interested parties must file objections within 15 days of the date of this publication or prior to release of this permit. Objections or concerns should be copied both to this applicant to the Director of the New Mexico Oil Conservation Division at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, (505) 476-3448.

7990-2017



September 10, 2012

CERTIFIED MAIL: 7007 2560 0002 4787 1749

Hudson Oil Company of Texas  
908 NW 71<sup>st</sup> Street  
Oklahoma City, Oklahoma 73116

**Re: Notification of SWD Well Application, R360 Permian Basin, LLC, Artesia SWD #1, Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Operator:

You are receiving a copy of the enclosed permit application because you have been an operator within the area of review (AOR). The application is for a commercial salt water disposal (SWD) well to be located at the R360 Permian Basin, LLC (formerly Artesia Aeration, LLC) facility located approximately 2 miles west of Maljamar, New Mexico. The SWD well will be located 232' FNL and 288' FEL, in Unit A (NE/4, NE/4) Section 7, Township 17 South, Range 32 east in Lea County, New Mexico. The proposed well will reinject produced and frac water into the Wolfcamp between 8820' and 10,000'.

Larson & Associates, Inc. (LAI), on behalf of R360 Permian Basin, LLC, a wholly owned subsidiary of R360 Environmental Solutions, Inc., 16945 Northchase Drive, Suite 2200, in Houston, Texas 77060, has submitted an application to the New Mexico Oil Conservation Division (OCD) in Santa Fe, New Mexico. You have 15 days to submit comments to the OCD at the District 1 office located at 1625 N. French Drive in Hobbs, New Mexico 88240 or 1220 South St. Francis Drive in Santa Fe, New Mexico 87505. Please forward a copy of your correspondence to OCD to Mr. Joe Rodriguez with R360 at 16945 Northchase Drive, Suite 2200, Houston, Texas 77060.

Sincerely,

Larson & Associates, Inc.

Mark J. Larson, P.G.  
Sr. Project Manager/President

Encl.

Cc: Joe Rodriguez – R360

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Oklahoma City, Oklahoma 73116

PS Form 3800-7

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Hudson Oil Company of Texas  
908 NW 71<sup>ST</sup> Street  
Oklahoma City, Oklahoma 73116

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PS Form 3811, February 2004

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 908 NW 71<sup>ST</sup> Street  
 Oklahoma City, Oklahoma 73116

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September 10, 2012

CERTIFIED MAIL: 7007 2560 0002 4787 1756

Cimarex Energy Co.  
600 N. Marienfeld Street, Suite 600  
Midland,, Texas 79701

**Re: Notification of SWD Well Application, R360 Permian Basin, LLC, Artesia SWD #1, Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Operator:

You are receiving a copy of the enclosed permit application because you have been an operator within the area of review (AOR). The application is for a commercial salt water disposal (SWD) well to be located at the R360 Permian Basin, LLC (formerly Artesia Aeration, LLC) facility located approximately 2 miles west of Maljamar, New Mexico. The SWD well will be located 232' FNL and 288' FEL, in Unit A (NE/4, NE/4) Section 7, Township 17 South, Range 32 east in Lea County, New Mexico. The proposed well will reinject produced and frac water into the Wolfcamp between 8820' and 10,000'.

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Sincerely,

Larson & Associates, Inc.

Mark J. Larson, P.G.  
Sr. Project Manager/President

Encl.

Cc: Joe Rodriguez – R360

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Midland, TX 79701	
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600 N. Marienfeld Street, Suite 600  
Midland, TX 79701

2. Article Number  
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PS Form 3811, February 2004

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☐ Addressee

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600 N. Marienfeld Street, Suite 600

Midland, TX 79701

PS Form 3800, August 2006

See Reverse for Instructions





September 10, 2012

CERTIFIED MAIL: 7007 2560 0002 4787 1763

Conoco Inc.  
Oasis 1026  
Houston, Texas 77252-2197

**Re: Notification of SWD Well Application, R360 Permian Basin, LLC, Artesia SWD #1, Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Operator:

You are receiving a copy of the enclosed permit application because you have been an operator within the area of review (AOR). The application is for a commercial salt water disposal (SWD) well to be located at the R360 Permian Basin, LLC (formerly Artesia Aeration, LLC) facility located approximately 2 miles west of Maljamar, New Mexico. The SWD well will be located 232' FNL and 288' FEL, in Unit A (NE/4, NE/4) Section 7, Township 17 South, Range 32 east in Lea County, New Mexico. The proposed well will reinject produced and frac water into the Wolfcamp between 8820' and 10,000'.

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Sincerely,

Larson & Associates, Inc.

Mark J. Larson, P.G.  
Sr. Project Manager/President

Encl.

Cc: Joe Rodriguez - R360

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Oasis 1026  
Houston, TX 77252-2197

2. Article Number  
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(Endorsement Required)

Total Postage &amp; Fees

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or PO Box No.

City, State, ZIP+4

Conoco Inc.

Oasis 1026

Houston, TX 77252-2197

PS Form 3800, August 2006

See Reverse for Instructions



September 10, 2012

CERTIFIED MAIL: 7007 2560 0002 4787 1770

COG Operating, LLC  
550 W. Texas Avenue, Suite 1300  
Midland, Texas 79701

**Re: Notification of SWD Well Application, R360 Permian Basin, LLC, Artesia SWD #1, Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Operator:

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Sincerely,

Larson & Associates, Inc.

Mark J. Larson, P.G.  
Sr. Project Manager/President

Encl.

Cc: Joe Rodriguez - R360

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Midland, TX 79701	
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September 10, 2012

CERTIFIED MAIL: 7007 2560 0002 4787 1787

Mack Energy Corp.  
11352 Lovington Hwy  
Artesia, NM 88211

**Re: Notification of SWD Well Application, R360 Permian Basin, LLC, Artesia SWD #1, Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Operator:

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Sincerely,

Larson & Associates, Inc.

Mark J. Larson, P.G.

Sr. Project Manager/President

Encl.

Cc: Joe Rodriguez - R360

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City, State, ZIP+4

Artesia, NM 88211

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0002220686 SEP 12 2012  
MAILED FROM ZIP CODE 79701



September 10, 2012

CERTIFIED MAIL: 7007 2560 0002 4787 1794

Tandem Energy Corporation  
11490 Westheimer Road, Suite 1000  
Houston, Texas 77084

**Re: Notification of SWD Well Application, R360 Permian Basin, LLC, Artesia SWD #1, Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Operator:

You are receiving a copy of the enclosed permit application because you have been an operator within the area of review (AOR). The application is for a commercial salt water disposal (SWD) well to be located at the R360 Permian Basin, LLC (formerly Artesia Aeration, LLC) facility located approximately 2 miles west of Maljamar, New Mexico. The SWD well will be located 232' FNL and 288' FEL, in Unit A (NE/4, NE/4) Section 7, Township 17 South, Range 32 east in Lea County, New Mexico. The proposed well will reinject produced and frac water into the Wolfcamp between 8820' and 10,000'.

Larson & Associates, Inc. (LAI), on behalf of R360 Permian Basin, LLC, a wholly owned subsidiary of R360 Environmental Solutions, Inc., 16945 Northchase Drive, Suite 2200, in Houston, Texas 77060, has submitted an application to the New Mexico Oil Conservation Division (OCD) in Santa Fe, New Mexico. You have 15 days to submit comments to the OCD at the District 1 office located at 1625 N. French Drive in Hobbs, New Mexico 88240 or 1220 South St. Francis Drive in Santa Fe, New Mexico 87505. Please forward a copy of your correspondence to OCD to Mr. Joe Rodriguez with R360 at 16945 Northchase Drive, Suite 2200, Houston, Texas 77060.

Sincerely,

Larson & Associates, Inc.

Mark J. Larson, P.G.  
Sr. Project Manager/President

Encl.

Cc: Joe Rodriguez - R360

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See Reverse for Instructions

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02 1P  
0002220686 SEP 12 2012  
MAILED FROM ZIP CODE 79701

**\$ 010.20<sup>0</sup>**



September 10, 2012

CERTIFIED MAIL: 7007 2560 0002 4787 1800

Linn Operating, Inc.  
600 Travis Street, Suite 5100  
Houston, Texas 77002

**Re: Notification of SWD Well Application, R360 Permian Basin, LLC, Artesia SWD #1, Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Operator:

You are receiving a copy of the enclosed permit application because you have been an operator within the area of review (AOR). The application is for a commercial salt water disposal (SWD) well to be located at the R360 Permian Basin, LLC (formerly Artesia Aeration, LLC) facility located approximately 2 miles west of Maljamar, New Mexico. The SWD well will be located 232' FNL and 288' FEL, in Unit A (NE/4, NE/4) Section 7, Township 17 South, Range 32 east in Lea County, New Mexico. The proposed well will reinject produced and frac water into the Wolfcamp between 8820' and 10,000'.

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Sincerely,

Larson & Associates, Inc.

Mark J. Larson, P.G.  
Sr. Project Manager/President

Encl.

Cc: Joe Rodriguez - R360

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Houston, Texas 77002

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September 10, 2012

CERTIFIED MAIL: 7007 2560 0002 4787 1817

Alamo Permian Resources, LLC  
415 W. Wall Street, Suite 500  
Midland, Texas 79701

**Re: Notification of SWD Well Application, R360 Permian Basin, LLC, Artesia SWD #1, Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Operator:

You are receiving a copy of the enclosed permit application because you have been an operator within the area of review (AOR). The application is for a commercial salt water disposal (SWD) well to be located at the R360 Permian Basin, LLC (formerly Artesia Aeration, LLC) facility located approximately 2 miles west of Maljamar, New Mexico. The SWD well will be located 232' FNL and 288' FEL, in Unit A (NE/4, NE/4) Section 7, Township 17 South, Range 32 east in Lea County, New Mexico. The proposed well will reinject produced and frac water into the Wolfcamp between 8820' and 10,000'.

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Sincerely,

Larson & Associates, Inc.

Mark J. Larson, P.G.

Sr. Project Manager/President

Encl.

Cc: Joe Rodriguez - R360

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Alamo Permian Resources, LLC	
Street, Apt. No., or PO Box No. 415 W. Wall Street, Suite 500	
City, State, ZIP+4 Midland, Texas 79701	
PS Form 3800, August 2006 See Reverse for Instructions	

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RECEIVED OCD

2012 DEC -7 A 8:29

December 6, 2012

VIA: FedEx

Mr. Will Jones, P.E.  
Engineering and Geological Services Bureau  
New Mexico Oil Conservation Division  
1220 So. St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Addendum to Commercial SWD Well Application, Artesia SWD #1, R360 Permian Basin LLC, Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Mr. Jones:

Larson & Associates, Inc., on behalf of R360 Permian Basin LLC (R360), submits the enclosed addendum to permit application to construct and operate a commercial salt water disposal (SWD) well. The well will be located 232 feet FNL and 288 feet FEL in Unit A (NE/4, NE/4) Section 7, Township 17 South and Range 32 East in Lea County, New Mexico. The addendum is submitted in response to a request for additional information. As part of the request, Mr. Tom Magee, Independent Petroleum Landman, researched the mineral ownership and lease of minerals for ½ mile radius of the wellbore. This information is included in the submittal and determined the ownership to be the United States of America and leased to ConocoPhillips. ConocoPhillips was notified and provided a copy of the permit application on September 10, 2012. The BLM has been provided a copy of the permit application and addendum. Please contact Joe B. Rodriguez with R360 at (210) 275-0839 or myself if you have questions.

Sincerely,

**Larson & Associates, Inc.**

A handwritten signature in black ink, appearing to read 'Mark J. Larson', is written over a horizontal line.

Mark J. Larson, P.G.

Mark@laenvironmental.com

Encl.

Cc: Ms. Donna Mull – OCD District 1  
Mr. Wesley Ingram - BLM  
Mr. Joe B. Rodriguez – R360

**ADDENDUM**

**ARTESIA SWD WELL NO. 1**

**PERMIT APPLICATION**

**Unit A (NE/4, NE/4), Section 7**

**Township 17 South, Range 32 East**

**Lea County, New Mexico**

LAI Project No. 11-0109-03

December 6, 2012

Prepared for:

R360 Permian Basin, LLC

16945 Northchase Drive, Suite 2200

Houston, Texas 77060

Prepared By:

Larson & Associates, Inc.

507 N. Marienfeld Street, Suite 200

Midland, Texas 79701

Mark J. Larson

Certified Professional Geologist No. 10490



November 27, 2012

VIA: FedEx

Mr. Will Jones, P.E.  
Engineering and Geological Services Bureau  
New Mexico Oil Conservation Division  
1220 So. St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Response to Request for Additional Information for Commercial SWD Well Application, Artesia SWD #1, R360 Permian Basin LLC, Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Mr. Jones:

This letter is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of R360 Permian Basin, LLC, in response to your request for additional information for the referenced commercial SWD permit application on November 8, 2012.

**Question:** Your application says the Wolfcamp formation would be targeted, so the disposal must be limited to that formation. I don't see any defined depth's for the base of the Wolfcamp in any files of wells near here. Would you estimate the top of the Pennsylvanian in this area? One source for you would be Craig Shappard, our geologist in Artesia or one of the geologists with the BLM.

**Response:** *Attachment A presents a geological cross section for the proposed SWD well which places the top of the Pennsylvanian (Cisco Fm) at 10,200 feet. This was confirmed with Paul Kautz, OCD District 1 geologist, on November 20, 2012.*

**Question:** It seems this Wolfcamp has been penetrated about 2 miles away without success, but for this well, what diagnostics would R360 use to make sure there are no recoverable oil or gas within the Wolfcamp formation? We commonly see mudlogs and logging programs on proposed new drilled disposal wells.

**Response:** *The well will be mud logged during drilling. Additional logging will include spectral gamma ray, compensated neutron density logs, and a resistivity log based on mud salinity.*

**Question:** Send a "post conversion" wellbore diagram with the injection tubing and packer in place in the well.

**Response:** *Attachment B presents the well diagram with the injection tubing and packer.*

**Question:** Send a signed statement stating that no Class I fluids would be disposed into this Class II water disposal well.

**Response:** *Attachment C presents a signed statement that no Class I fluids will be disposed in this Class II water disposal well.*

**Question:** The notice requirements for injection/disposal goes out to all "affected persons" which would be owners of separately owned tracts of lands partially or wholly located within a ½ mile circle around this proposed well. So if there is not an operator within a tract, the lessee of that tract, if no lessee, then the mineral owner. I see in this application the "operators" within 2 miles, but not the "affected persons" within ½ mile. The minerals around this well seem to be wholly administered by the BLM, so this proposed well would be a "federal" well and there could be some mineral lessees. Please identify these affected persons by sending something like the attached. Of course eventually you will need an approved APD from the BLM but the BLM should also be formally noticed of this disposal application by certified mail.

**Response:** *A review of the mineral ownership was performed by Mr. Thomas Magee, Independent Petroleum Landman, for the area encompassing ½ mile of the proposed SWD well. The research included reviewing abstract records from Caprock Title Company, Midland, Texas, public website records from the U.S. Bureau of Land Management (BLM), OCD and New Mexico Land System and Lea County, New Mexico Tax Assessor. Shultz Abstract Company, Inc., located in Santa Fe, New Mexico, reviewed leasehold information for the subject area.*

*The information identifies the mineral owner as the United State of America administered by the BLM. The most recent oil and gas lease information available through the tax assessor for Lea County, New Mexico, was filed on August 24, 1959. Information provided by Shultz Abstract identified the lease owner as ConocoPhillips. Attachment D presents an exhibit showing the lease owner and lease holder and research information.*

Please contact Joe B. Rodriguez with R360 at (210) 275-0839 or myself if you have questions.

Sincerely,

Larson & Associates, Inc.



Mark J. Larson, P.G.

Mark@laenvironmental.com

Encl.

Cc: Ms. Donna Mull – OCD District 1  
Mr. Wesley Ingram – BLM Carlsbad District  
Mr. Joe B. Rodriguez – R360

## **ATTACHMENT A**

### **Geologic Cross Section**

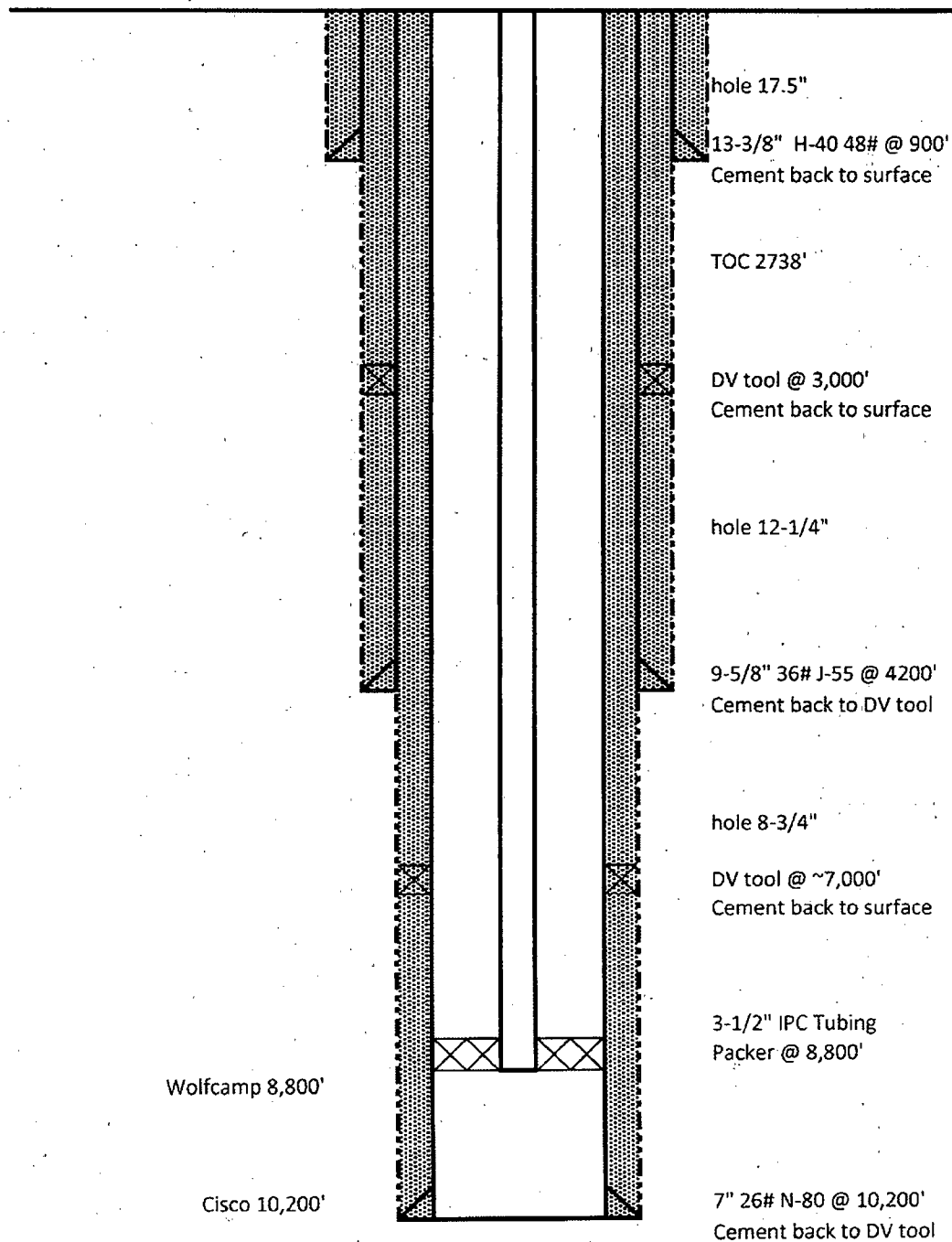


## **ATTACHMENT B**

### **Well Schematic**

**ARTESIA SWD #1**  
**R360 PERMIAN BASIN, LLC**  
**Lea County, New Mexico**

**PROPOSED WELL DIAGRAM**



**ATTACHMENT C**

**Signed Statement for Fluid Disposal**

### Statement of Disposal Fluids

I, Joe B. Rodriguez, state that the proposed Artesia SWD #1 well will accept only Class II fluids and no Class I fluids will be disposed into the water disposal well.

Joe B Rodriguez

Printed Name

Joe B Rodriguez

Signature

11/28/12

Date

**ATTACHMENT D**

**Mineral Ownership Information**

**THOMAS M. MAGEE**  
*Independent Petroleum Landman*  
**P.O. Box 52938**  
**Midland, Texas 79710**

712-253-7742 cell

mageelaw@windstream.net

November 17, 2012

Mark Larson  
Larson & Associates, Inc.  
507 N. Marienfeld, Suite 200  
Midland, TX 79702

Re: R360 Permian Basin Disposal Well;  
NE/4 Section 7, T17S-R32E  
Lea County, NM

Dear Mr. Larson:

You asked for the mineral ownership of all lands within ½ mile of your proposed disposal well being permitted 232' FNL and 288' FEL in the captioned Section 7.

In this connection I researched the abstract tract records of Caprock Title Company in Midland, Texas; the public website records of the Bureau of Land Management (BLM); the public website of the New Mexico Oil Conservation Commission (NMOCD); the public website of the State of New Mexico Land System; and the Lea County, NM Tax Assessor's public website.

Based on the records examined the following are the mineral owners of lands lying with ½ mile of your proposed disposal well:

**T17S – R32E, NMPM**

SW/4 of Section 5: United States of America  
SE/4 of Section 6: United States of America  
E/2 of Section 7: United States of America  
W/2 of Section 8: United States of America

Page -2-

The W/2 of Section 8 has never been sold by the United States and both surface and minerals are owned by the USA.

The SW/4 of Section 5, the SE/4 of Section 6 and E/2 of Section 7 were sold by the United States of America by Patents reserving all the coal and other mineral resulting in what is commonly referred to as "Split Estate" between the surface owner and the mineral owner which minerals being administered by the BLM.

The address for the BLM Albuquerque District Office is:  
435 Montano Road, NE  
Albuquerque, NM 87107-4935  
505-761-8700

I am enclosing for your records:

1. Copy of Lea County, NM map showing highlighted in yellow "Split-Estate" lands and in pink "Intact" surface/mineral lands
2. Copy of Patent issued to May A. Goettsche, recorded in Vol. 4, Page 136 of the Lea County, NM Public Records
3. Copy of Patent issued to Louise A. Gottsche, recorded in Vol. 4, Page 137 of the Lea County, NM Public Records
4. Copies of various maps obtained from BLM Arc base map CD dated July 2012
5. Copy of Lea County, NM GIS Internet Report of surface ownership of Sections 5, 6, 7 & 8
6. Limited Runsheets based on Caprock Abstract tract books

Thank you and please do not hesitate to call should you have any questions or comments.

Sincerely,



Thomas M. Magee

Encl.  
TMM/cem



# **New Mexico State Land Office** **Oil, Gas, and Minerals**

0 0.0450.09 0.18 0.27 0.36  
Miles  
Universal Transverse Mercator Projection, Zone 13  
1983 North American Datum

The New Mexico State Land Office assumes no responsibility or liability for, or in connection with, the accuracy, reliability or use of the information provided here, in State Land Office data layers or any other data layer.

Land Office Geographic Information Center  
logic@sls.state.nm.us

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## **Point Locations**

- County Seat
- ▲ SLO District Offices
- City, Town or Village
- Volcanic Vents
- Highway Mileposts

## **NMOCD Oil and Gas Wells**

- Oil
- Gas
- Injection
- Water
- Carbon Dioxide
- DA or PA
- Miscellaneous
- ▲ Salt Water Disposal

## **Federal Minerals**

- All Minerals
- Coal Only
- Oil and Gas Only
- Oil, Gas and Coal Only
- Other Minerals

## **State Trust Lands**

- Surface Estate
- Subsurface Estate
- Both Estates

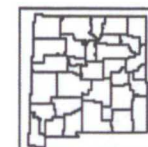
## **NMSLO Leasing**

- Option Agreement
- Commercial Lease
- Minerals Lease
- Oil and Gas Lease
- Agricultural Lease
- Not Available for Oil and Gas Leasing
- Restriction Influences Oil and Gas Leasing

## **Other Boundaries**

- Continental Divide
- State Boundary
- County Boundaries
- Oil and Gas Unit Boundary
- Participating Areas in Units
- Geologic Regions
- Potash Enclave (NMOCD R-111-P)

For detailed legend of the Geologic Map of New Mexico, please see <http://geoinfo.nmt.edu/>



[www.nmstatelands.org](http://www.nmstatelands.org)



DISTRICT 3  
1801 W. Grand Avenue, Artesia, NM 88210

**DISTRICT III**  
1000 Rio Doncees Rd., Artes, NM 87610

**DISTRICT IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87506

**OIL CONSERVATION DIVISION**  
1220 South St. Frances Dr.  
Santa Fe, NM 87505

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name ARTESIA SWD	Well Number 1
OCRID No.	Operator Name R360 PERMIAN BASIN LLC.	Elevation 4035'

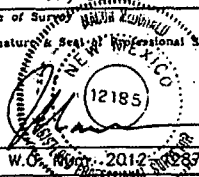
### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	7	17-S	32-E		232	NORTH	288	EAST	LEA

## Bottom Hole Location If Different From Surface

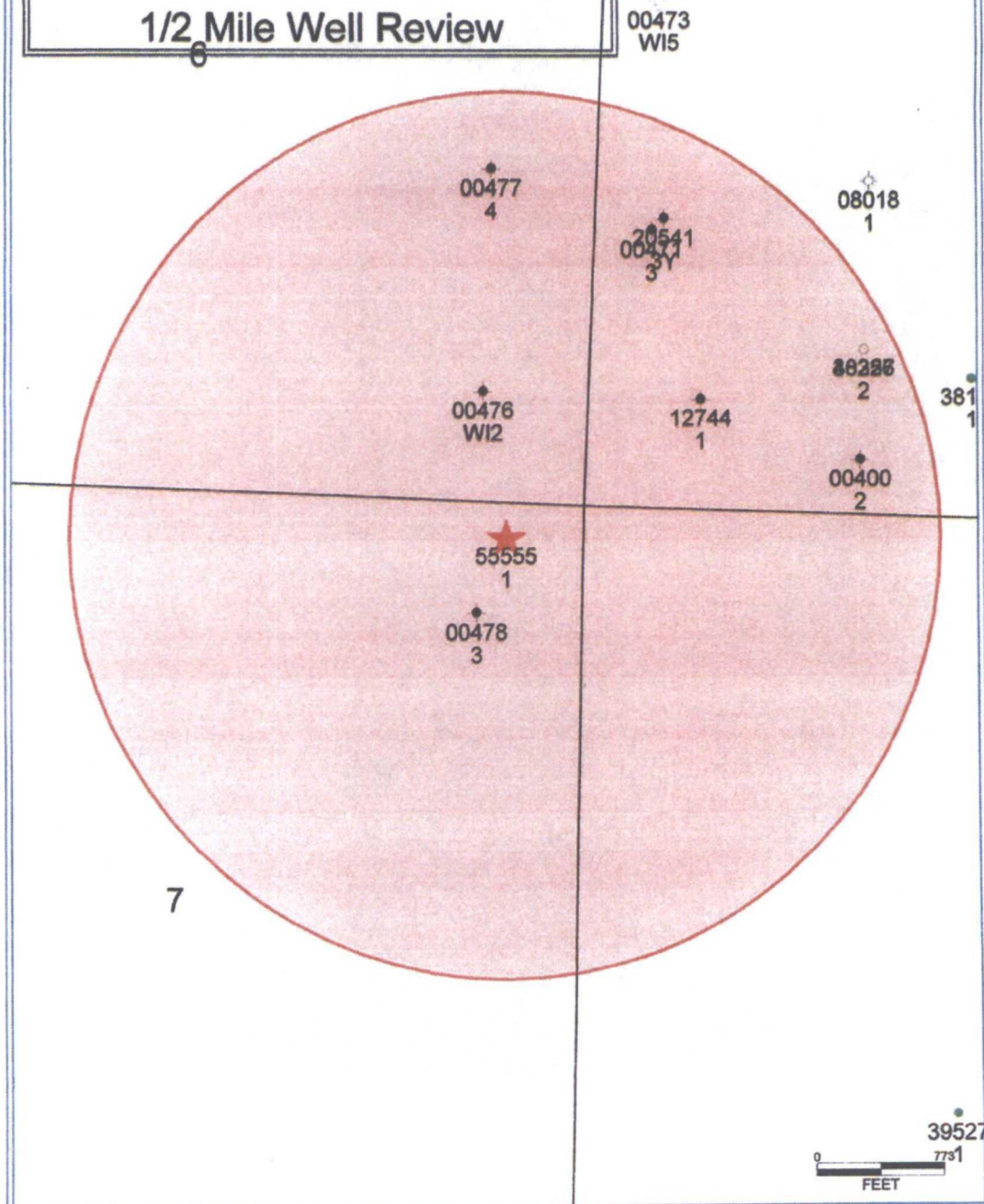
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

			<div style="text-align: right;"> <div style="display: inline-block; transform: rotate(-90deg);">232</div> <div style="display: inline-block; transform: rotate(90deg);">288</div> </div> <p>Plane Coordinate  X = 884,500.0  Y = 675,428.1</p>	<p align="center"><b>OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify the information contained herein to be true and complete to the best of my knowledge and belief, and that the organization either owns a surveying instrument or is authorized to use the same for the purpose of the survey, and that the operator is duly licensed or qualified to perform the survey, and that the operator is duly licensed or qualified to perform the survey, and that the operator is duly licensed or qualified to perform the survey.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p>
				<p align="center"><b>SURVEYOR CERTIFICATION</b></p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p>
<p>NOTE:</p> <p>1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.</p>				<p align="center">July 30, 2012</p> <p>Date of Survey _____ SIA</p> <p>Signature &amp; Seal of Professional Surveyor _____</p> <div style="text-align: center;">  </div> <p align="center">W. O. Hooton 2012-2013  Professional Surveyor</p> <p>Certificate No. _____ 12185</p>

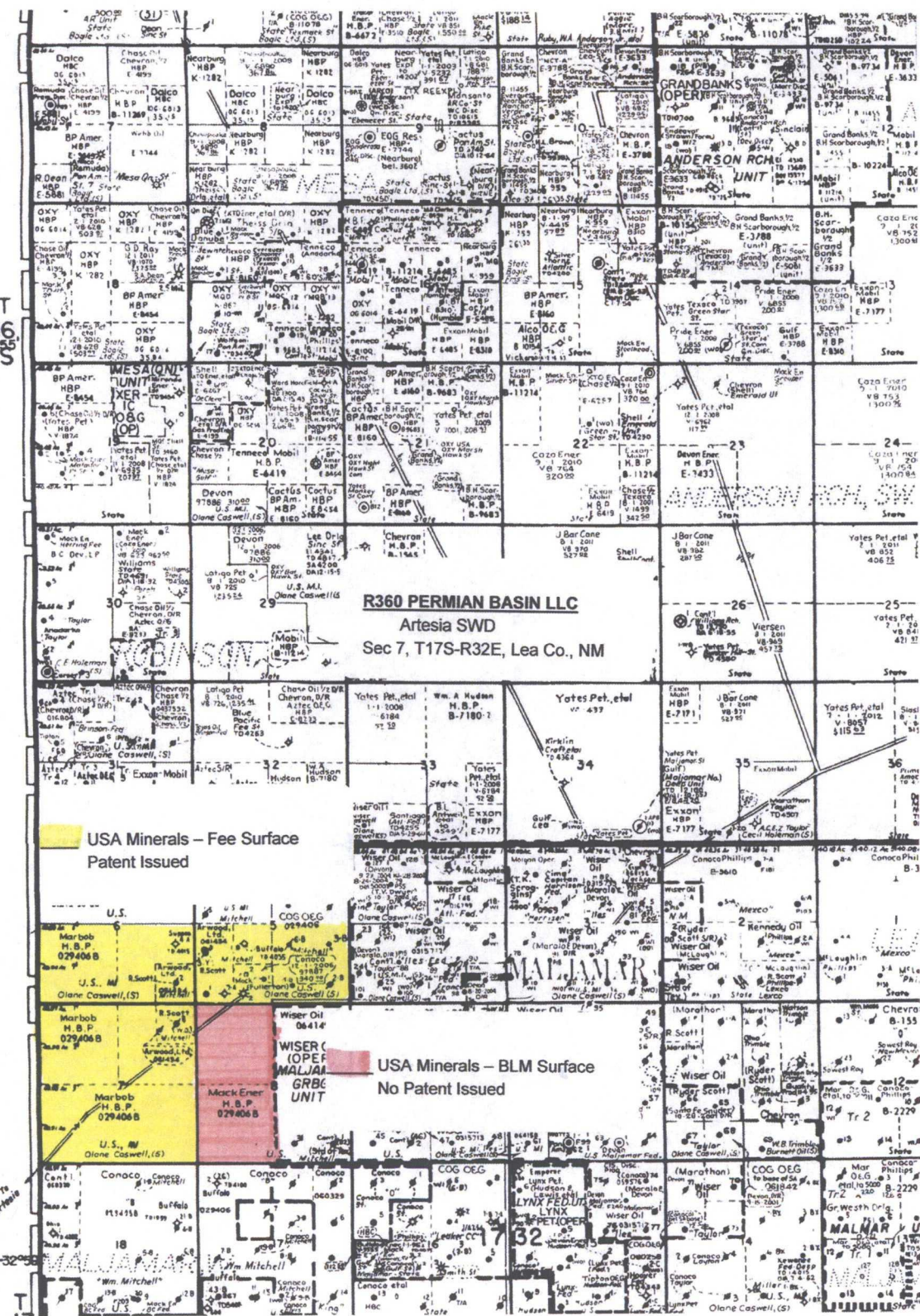
R360 Permian Basin, LLC  
ARTESIA SWD #1

1/2 Mile Well Review





EDUY, East



USA Minerals - Fee Surface  
Patent Issued

USA Minerals - BLM Surface  
No Patent Issued



UNITED STATES

TO

LOUISE M. GOETSCH

State of New Mexico, County of Lea, ss.

I hereby certify that this instrument was filed for record on 27 day of June, 1922, at 5 o'clock P.M., and was duly recorded.

Geo. H. Barrows  
County Clerk.  
J. M. Blackman, Deputy.

Donwell C33127

4-1007.

THE UNITED STATES OF AMERICA.

To All to Whom These Presents Shall Come, Greeting:

WHEREAS, A Certificate of the Register of the Land Office at Roswell, New Mexico, has been deposited in the General Land Office, whereby it appears that, pursuant to the Act of Congress of May 20, 1862, "To secure Homesteads to Actual Settlers on the Public Domain," and the Acts supplemental thereto, the claim of LOUISE M. GOETSCH

has been established and duly consummated, in conformity to law, for the Lots six and seven, the east half of the southeast quarter and the southeast quarter of Section six and the south half of Section five in Township seven north of Range thirty-two east of the New Mexico Meridian, Lea County, containing nine hundred forty-one and eight-hundredths acres.

according to the Official Plat of the Survey of the said land, returned to the GENERAL LAND OFFICE by the Surveyor-General:

NOW, KNOW YE, That there is, therefore, granted by the UNITED STATES unto the said claimant the tract of land above described; TO HAVE AND TO HOLD the said tract of land, with the appurtenances thereof, unto the said claimant and to the heirs and assigns of the said claimant forever; subject to any vested and accrued water rights for mining, agricultural, manufacturing, or other purposes, and rights to ditches and reservoirs used in connection with such water rights, as may be recognized and acknowledged by the local customs, laws, and decisions of courts; and there is reserved from the lands hereby granted a right of way thereon for ditches or canals constructed by the authority of the United States, excepting and reserving, however, to the United States all the coal and other minerals in the lands so entered and patented, together with the right to prospect for, mine, and remove the same pursuant to the provisions and limitations of the Act of December 20, 1916 (39 Stat. 502).



IN TESTIMONY WHEREOF, I, WOODROW W. WILSON, President of the United States of America, have caused these letters to be signed Patent, and the seal of the General Land Office to be hereunto affixed.

GIVEN under my hand in the District of Columbia, this 27 day of June, 1922, in the year of our Lord one thousand nine hundred and one of the Independence of the United States the one hundred and fifty-first.

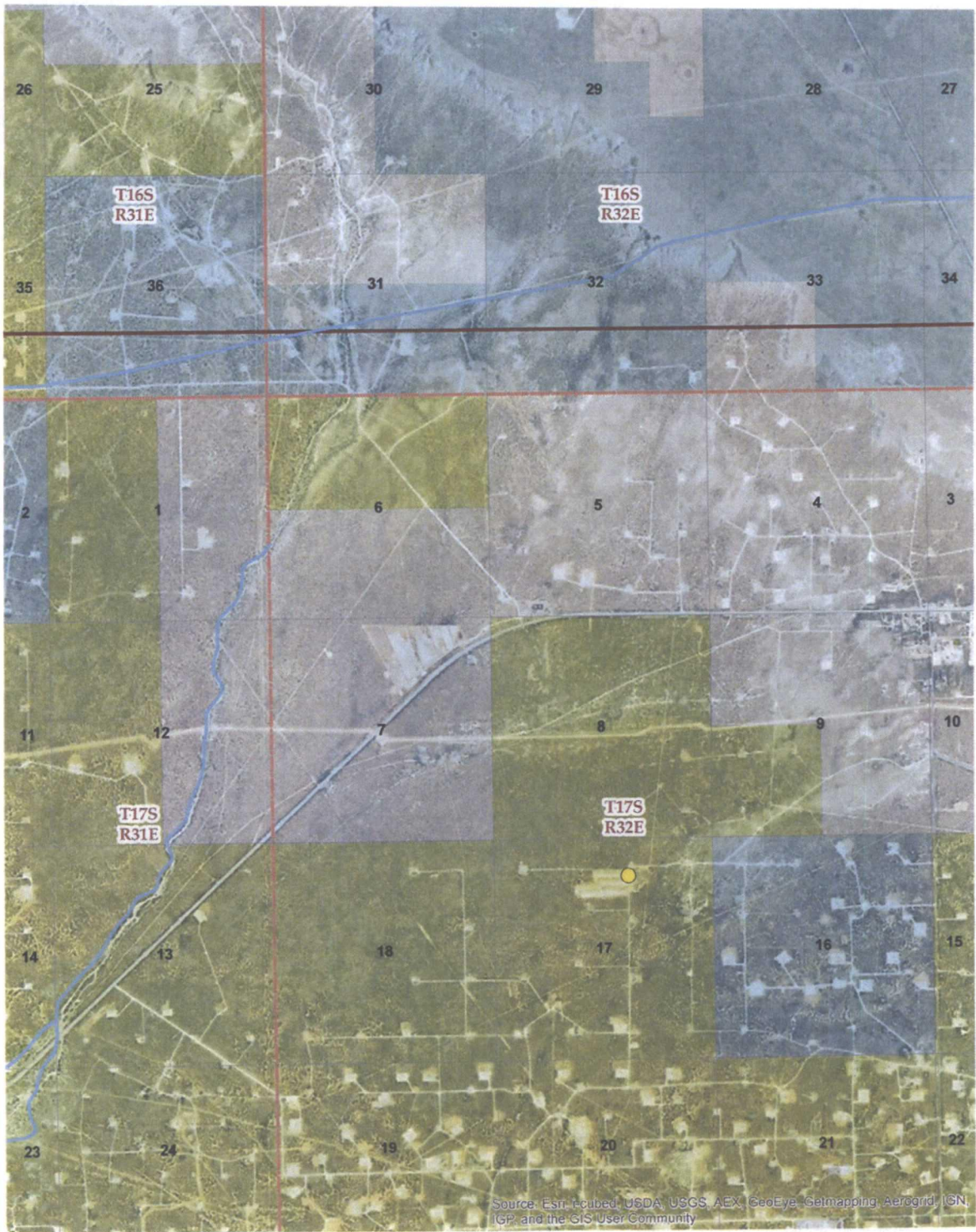
BY THE PRESIDENT: WOODROW W. WILSON

By Viola A. Page, Secretary.

RECORDED: Patent Number 838732

By Viola A. Page, Recorder of the General Land Office.











**A 40 SENW** **A SWNE 40** **A SENE 40** **ASWNW 40** **ASWNE 40** **ASWSE 40** **ASWSW 40** **ASWSE 40** **ASWSE 40**

**6** **5**

**178 32E**

**CARLSBAD FIELD OFFICE** **PECOS DISTRICT OFFICE**

**ANWNW 40** **ANENW 40** **NWNE A 40**

**7** **82** **ASWNW 40** **ASENW 40** **SWNE A 40**

**8**

**ANWSW 40** **ANESW 40** **NWSE A 40**

**ASWSW 40** **ASESW 40** **A 40**



ded by the BLM

No warranty is made by the BLM for the use of the data for purposes not intended by the BLM.



# R360 Permian Basin LLC

A A SESE 3640	16S 31E 40.65 L 4 L 4	16S 32E 31 A 40 SESW	A 40 SWSE	A 40 SESE	A A SWSW 3240	A 40 SESW	A 40 SWSE	A 40 SESE	A 3340 A SWSW
L 1 39.99 L 1	L 4 40.69 L 4	L 3 39.97 L 3	L 2 39.95 L 2	L 1 39.93 L 1	L 4 39.93 L 4	L 3 39.97 L 3	L 2 39.99 L 2	L 1 40.03 L 1	L 4 40.04 L 4
A 40 SENE	L 5 40.78 L 5	SENW A 40	SWNE A 40	A 40 SENE	SWNW A 40	SENW A 40	SWNE A 40	A 40 SENE	A 40 SWNW
1 A 40 NESE	6 40.86 L 6 L 6	NESW A 40	NWSE A 40	A 40 NESE	5 NWSW A 40	NESW A 40	NWSE A 40	A 40 NESE	4 NWSW A 40
A 40 SESE	L 7 40.94 L 7	A 40 SESW	A 40 SWSE	A 40 SESE	SWSW A 40	A 40 SESW	A 40 SWSE	A 40 SESE	SWSW A 40
A 40	CARLSBAD FIELD OFFICE			A 40	PECOS DISTRICT OFFICE			A 40	A
17S 31E A 40 SENE	L 2 40.95 L 2	A 40 SESW	A 40 SWNE	A 40 SENE	82 NWNW A 40	NWNE A 40	A 40 NENE	A 40 NENE	NWNW A 40
12 A 40 NESE	7 40.93 L 3 L 3	A 40 NESW	A 40 NWSE	A 40 NESE	8 NWSW A 40	NESW A 40	NWSE A 40	A 40 NESE	9 NWSW A 40
A 40 SESE	L 4 40.91 L 4	A 40 SESW	A 40 SWSE	A 40 SESE	SWSW A 40	A 40 SESW	A 40 SWSE	A 40 SESE	A 40 SWSW
A 40 NENE	L 1 40.91 L 1	NENW A 40	NWNE A 40	A 40 NENE	NWNW A 40	NENW A 40	NWNE A 40	A 40 NENE	NWNW A 40
13 A 40 SENE	18 40.93 L 2 L 2	SENW A 40	SWNE A 40	A 40 SENE	17 SWNW A 40	SENW A 40	SWNE A 40	A 40 SENE	16 SWNW A 40

SWD Well



11/17/2012

No warranty is made by the BLM for the use of the data for purposes not intended by the BLM.





# Lea County

## GIS INTERNET REPORT

Page 1 of 1



### Assessment Information

OWNER NUMBER: 35089

UPC CODE: 4000350890008

PARCEL NUMBER: 4000350890008

Owner Information	
Owner:	CASWELL, OLANE
Mailing Address:	1702 GILLHAM BROWNFIELD TX 79316
Property Address:	

Subdivision Information	
Name:	
Unit:	
Block	
Lot:	

Legal Information
479.86 AC BEING ALL *LESS 163.90 AC TO ARTESIA AERATION LLC #203293 DESC AS TR BEG NE COR SEC 7, TH S0D02'49"E 379.81' TO N ROW HWY 83, TH ALONG A CURVE TO LEFT (RA 5829.60' CHORD BEARING S56D40'19"W) FOR 1939.95', TH S47D10'19"W 1679.48', N87D43'22"W 2312.70', N33D48'20"W 72.12', N35D58'22"E 2842.21', S88D51'48"E 3181.75', N30D00'E 396.97', S89D48'20"E 765.75', S15D06'17"E 155.43', S89D55'W 659.52' TO BEG (LEGAL GOES INTO SEC 5-6-7) 7/8/05-REDESCRIBED PRT TO #203293 ARTESIA AERATION LLC B-1385 P-184

Other Information			
Taxable Value:	45137	Deed Book:	
Exempt Value:	0	Deed Page:	0
Net Value	45137	District:	010
Livestock Value:	0	Section:	7
Manufactured Home Value:	0	Township:	17
Personal Property:	0	Range:	32
Land Value:	18198	Date Filed:	0
Improvement Value:	117213	Most Current Tax:	\$1,108.40
Full Value:	135411	Year Recorded:	

#### Lea County, New Mexico Disclaimer

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MAP TO BE USED FOR TAX PURPOSES ONLY. NOT TO BE USED FOR CONVEYANCE.

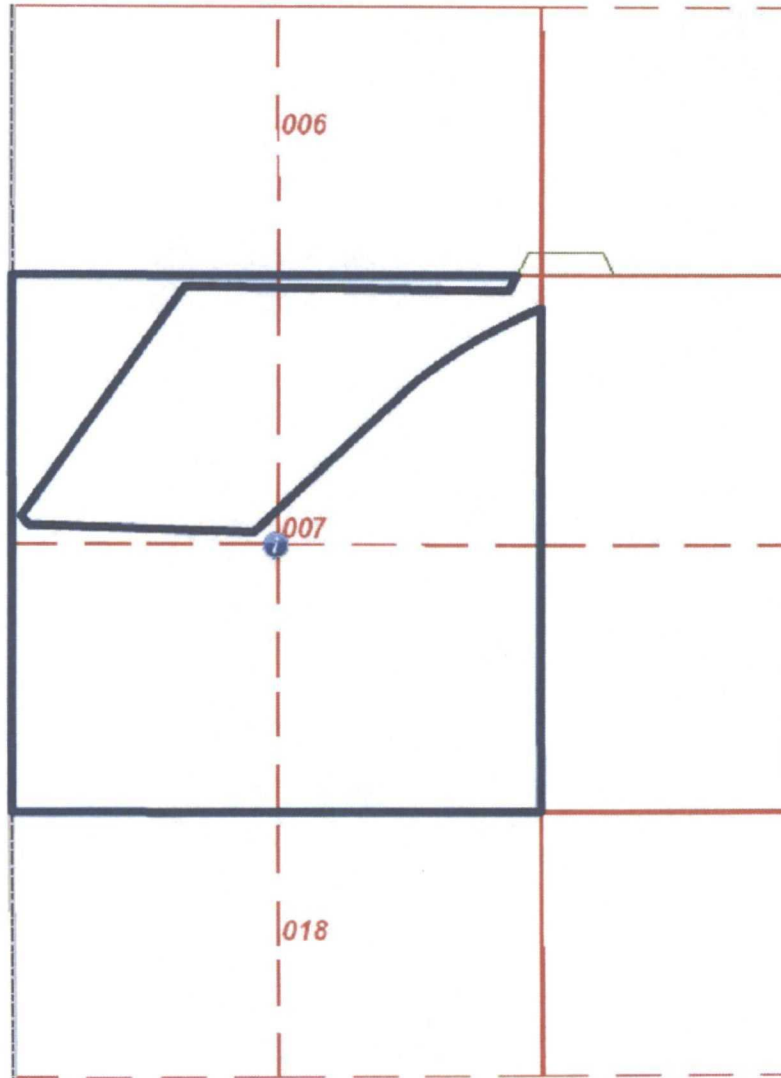
# Olane Caswell

Lea County NM

Printed Fri Nov 16 2012

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Powered by EMapsPlus.com





# Lea County

## GIS INTERNET REPORT

Page 1 of 1



### Assessment Information

OWNER NUMBER: 35089

UPC CODE: 4000350890007

PARCEL NUMBER: 4000350890007

Owner Information	
Owner:	CASWELL, OLANE
Mailing Address:	1702 GILLHAM BROWNFIELD TX 79316
Property Address:	

Subdivision Information	
Name:	
Unit:	
Block	
Lot:	

Legal Information	
321.13 AC BEING S2 *LESS .67 AC TO ARTESIA AERATION 7/8/05-REDESCRIBED PRT TO #203293 ARTESIA AERATION LLC B-1385 P-184	

Other Information			
Taxable Value:	45137	Deed Book:	
Exempt Value:	0	Deed Page:	0
Net Value	45137	District:	010
Livestock Value:	0	Section:	6
Manufactured Home Value:	0	Township:	17
Personal Property:	0	Range:	32
Land Value:	18198	Date Filed:	0
Improvement Value:	117213	Most Current Tax:	\$1,108.40
Full Value:	135411	Year Recorded:	

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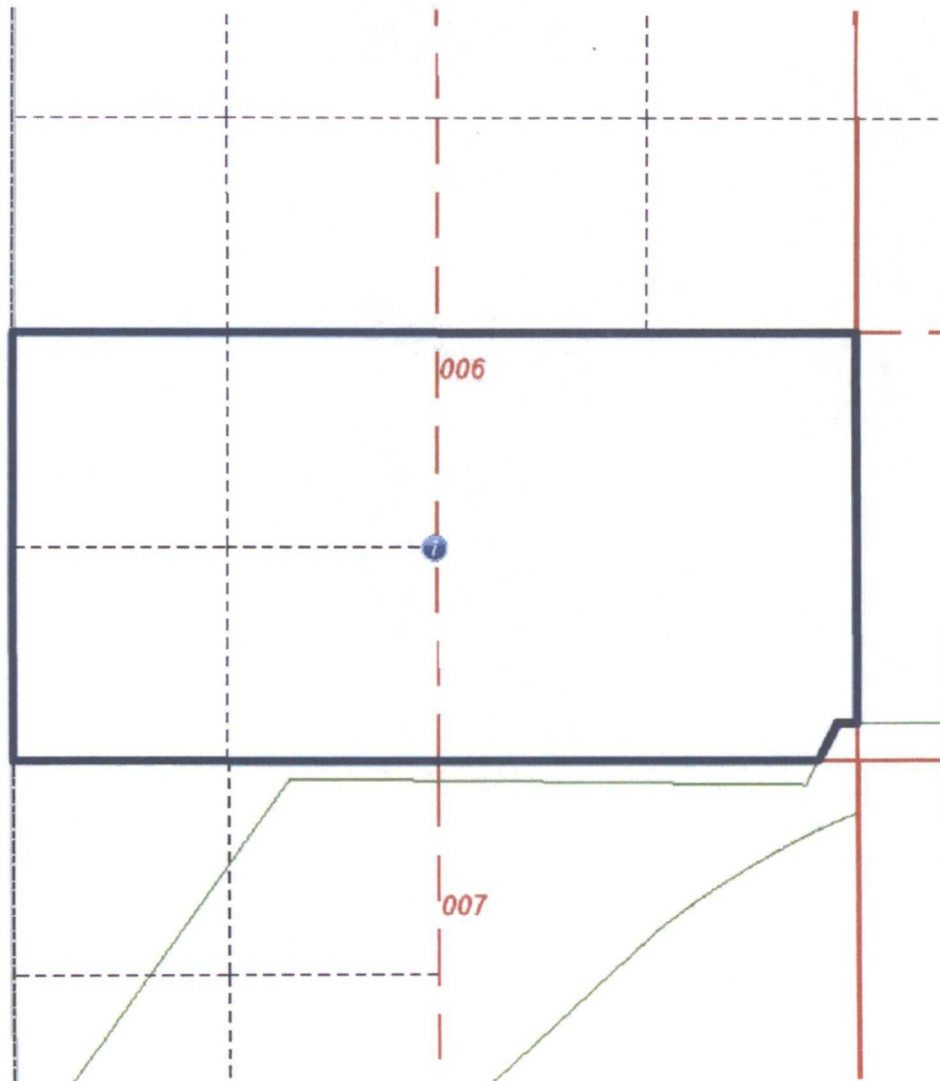
# Olane Caswell

Lea County NM

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# Lea County

## GIS INTERNET REPORT

Page 1 of 1



### Assessment Information

OWNER NUMBER: 35089      UPC CODE: 4000350890006  
PARCEL NUMBER: 4000350890006

Owner Information	
Owner:	CASWELL, OLANE
Mailing Address:	1702 GILLHAM BROWNFIELD TX 79316
Property Address:	

Subdivision Information	
Name:	
Unit:	
Block	
Lot:	

Legal Information
633.36 AC *LESS 4.36 AC TO STATE HWY DEPT B-464 P-709 (1991) *LESS 2.20 AC TO ARTESIA AREATION LLC (SEE LEGAL SEC 7) 7/8/05-REDESCRIBED PRT TO #203293 ARTESIA AREATION LLC (B-1385 P-184)

Other Information			
Taxable Value:	45137	Deed Book:	
Exempt Value:	0	Deed Page:	0
Net Value	45137	District:	010
Livestock Value:	0	Section:	5
Manufactured Home Value:	0	Township:	17
Personal Property:	0	Range:	32
Land Value:	18198	Date Filed:	0
Improvement Value:	117213	Most Current Tax:	\$1,108.40
Full Value:	135411	Year Recorded:	

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MAP TO BE USED FOR TAX PURPOSES ONLY. NOT TO BE USED FOR CONVEYANCE.

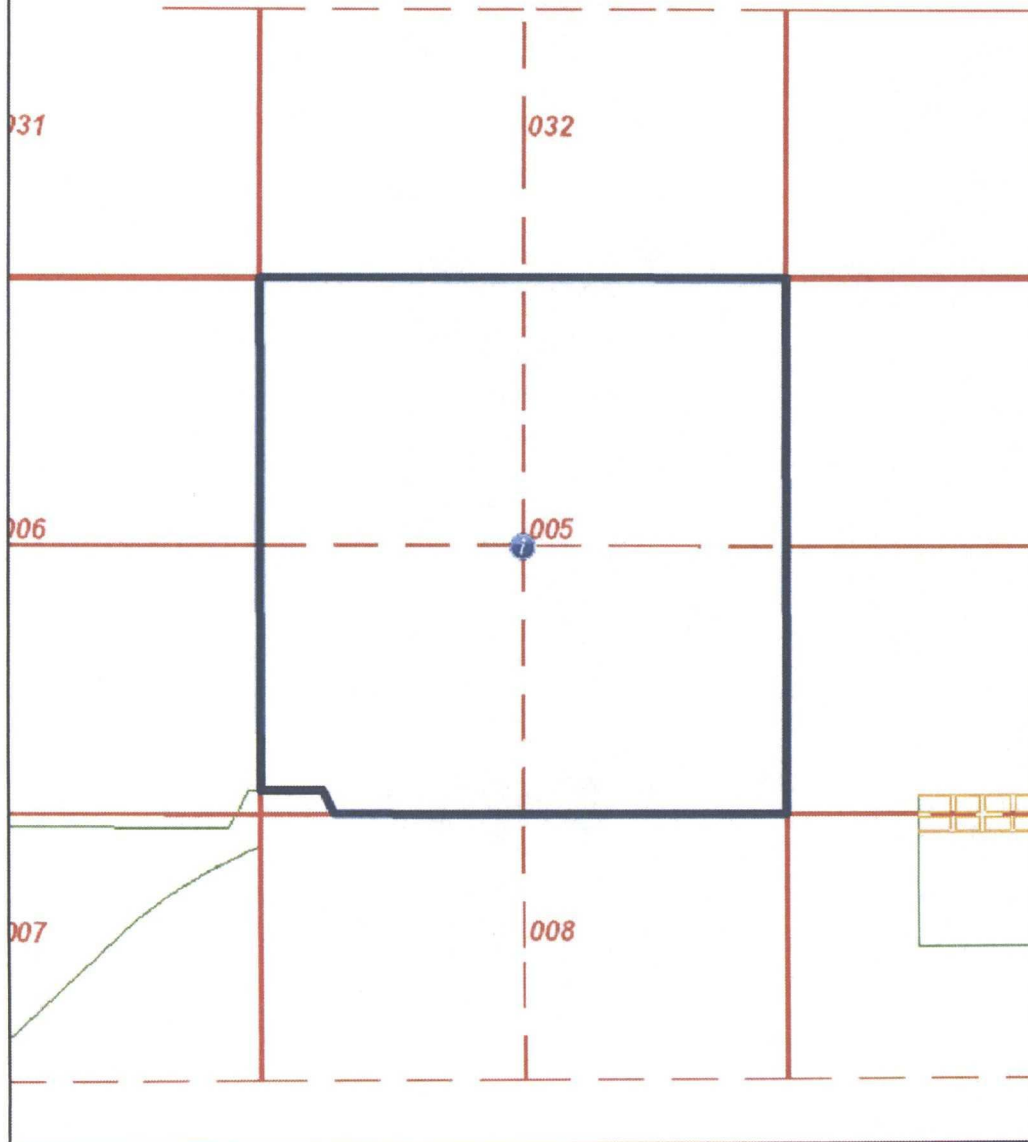
# Olane Caswell

Lea County NM

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# Lea County

## GIS INTERNET REPORT

Page 1 of 2



### Assessment Information

OWNER NUMBER: 203293

UPC CODE: 4950830103241

PARCEL NUMBER: 4950830103241

Owner Information	
Owner:	R360 ARTESIA LLC
Mailing Address:	GREENSPPOINT PLAZA 4 16945 NORTHCHASE DRIVE SUITE 2200 HOUSTON TX 77060
Property Address:	

Subdivision Information	
Name:	
Unit:	
Block	
Lot:	

Legal Information
167.86 AC LOC N2 TR BEG NE COR SEC 7, TH S0D02'49"E 379.81' TO N ROW HWY 83, TH ALONG A CURVE TO LEFT (RA 5829.60') A DISTANCE OF 1939.95' (CHORD BEARING S56D40'19"W FOR 1931.01'), TH S47D10'19"W 1679.48', N87D43'22"W 2312.70', N33D48'20"W 72.12', N35D58'22"E 2842.21', S88D51'48"E 3181.75', N30D00'E 396.97', S89D48'20"E 765.75', S15D06'17"E 155.43', N89D55'W 659.52' TO BEG (LEGAL IS LOC IN SEC 5, 6 & 7) 7/8/05-CASWELL, OLANE PRT #35089 8/29/11-CLAIM OF EXEMPTION BK 1743 PG 11 8/29/11-ARTESIA AERATION LLC

Other Information			
Taxable Value:	18185	Deed Book:	1743
Exempt Value:	0	Deed Page:	5
Net Value	18185	District:	010
Livestock Value:	0	Section:	7
Manufactured Home Value:	0	Township:	17
Personal Property:	0	Range:	32
Land Value:	54555	Date Filed:	20110829
Improvement Value:	0	Most Current Tax:	\$512.02
Full Value:	54555	Year Recorded:	2011

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# R360 Artesia LLC

Lea County NM

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The map displays a proposed road layout with the following dimensions and features:

- A horizontal road segment on the left with a length of 3181.75.
- A vertical road segment on the right with a length of 650.52.
- A horizontal road segment at the top with a length of 765.75.
- A vertical road segment on the left with a length of 379.61.
- A horizontal road segment at the bottom with a length of 390.97.
- A curved road segment with a radius of  $R=5829.6$  and a length of 1930.95.
- A small segment on the far left labeled "W 48".

# R360 Artesia LLC

Lea County NM

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- A horizontal road segment at the top with a length of 765.75.
- A vertical road segment on the left with a length of 379.61.
- A horizontal road segment at the bottom with a length of 390.97.
- A curved road segment with a radius of  $R=5829.6$  and a length of 1930.95.
- A road segment labeled "W" and "48" on the left side.

# R360 Artesia LLC

Lea County NM

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- A vertical road segment on the left with a length of 379.61.
- A horizontal road segment at the bottom with a length of 390.97.
- A curved road segment with a radius of  $R=5829.6$  and a length of 1939.95.
- A small segment of a road on the far left labeled "W 48".

# R360 Artesia LLC

Lea County NM

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- A vertical road segment on the left with a length of 379.61.
- A horizontal road segment at the bottom with a length of 390.97.
- A curved road segment with a radius of  $R=5829.6$  and a length of 1930.95.
- A small segment on the far left labeled "W 48".

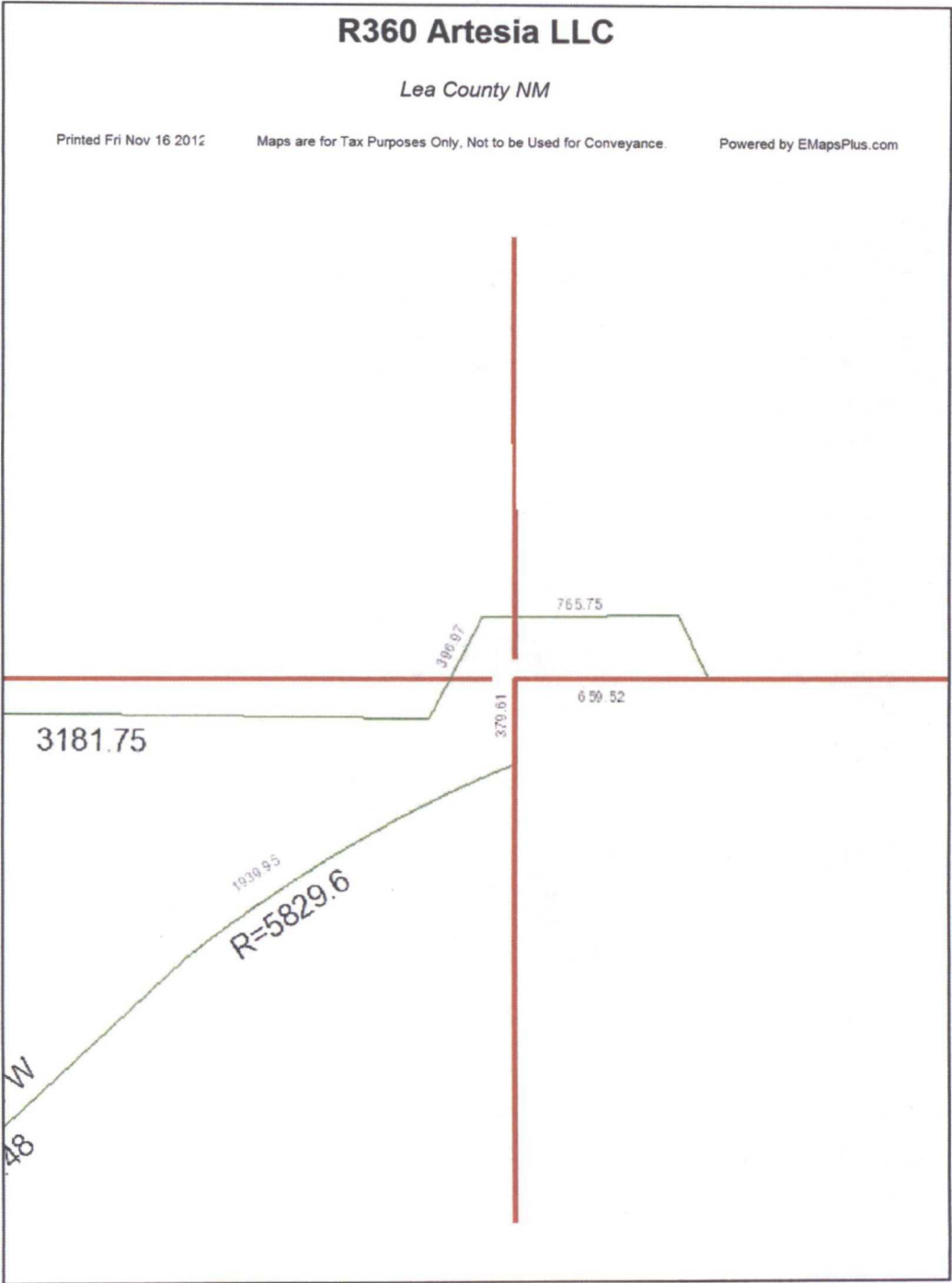
# R360 Artesia LLC

Lea County NM

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- A vertical road segment on the right with a length of 650.52.
- A horizontal road segment at the top with a length of 765.75.
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- A curved road segment with a radius of  $R=5829.6$  and a length of 1930.95.
- A small segment on the far left labeled "W 48".



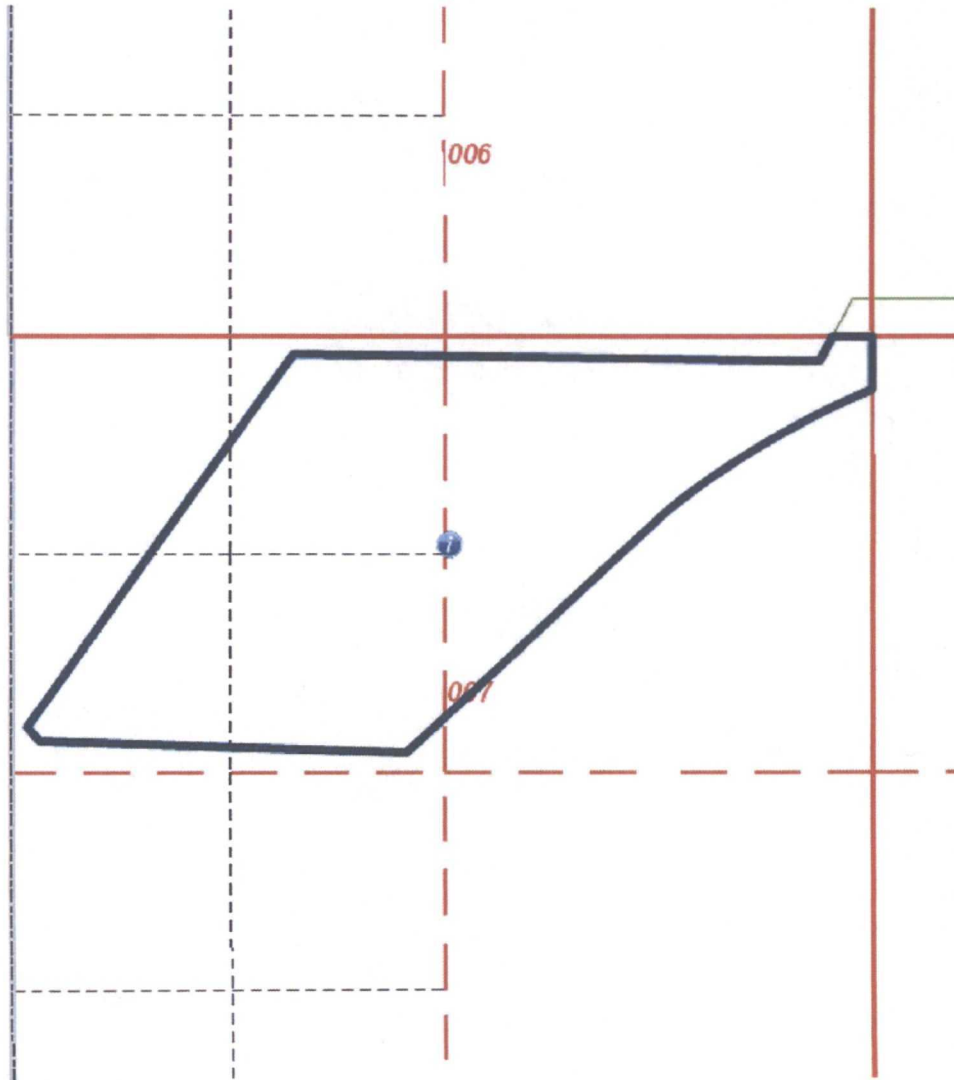
# R360 Artesia LLC

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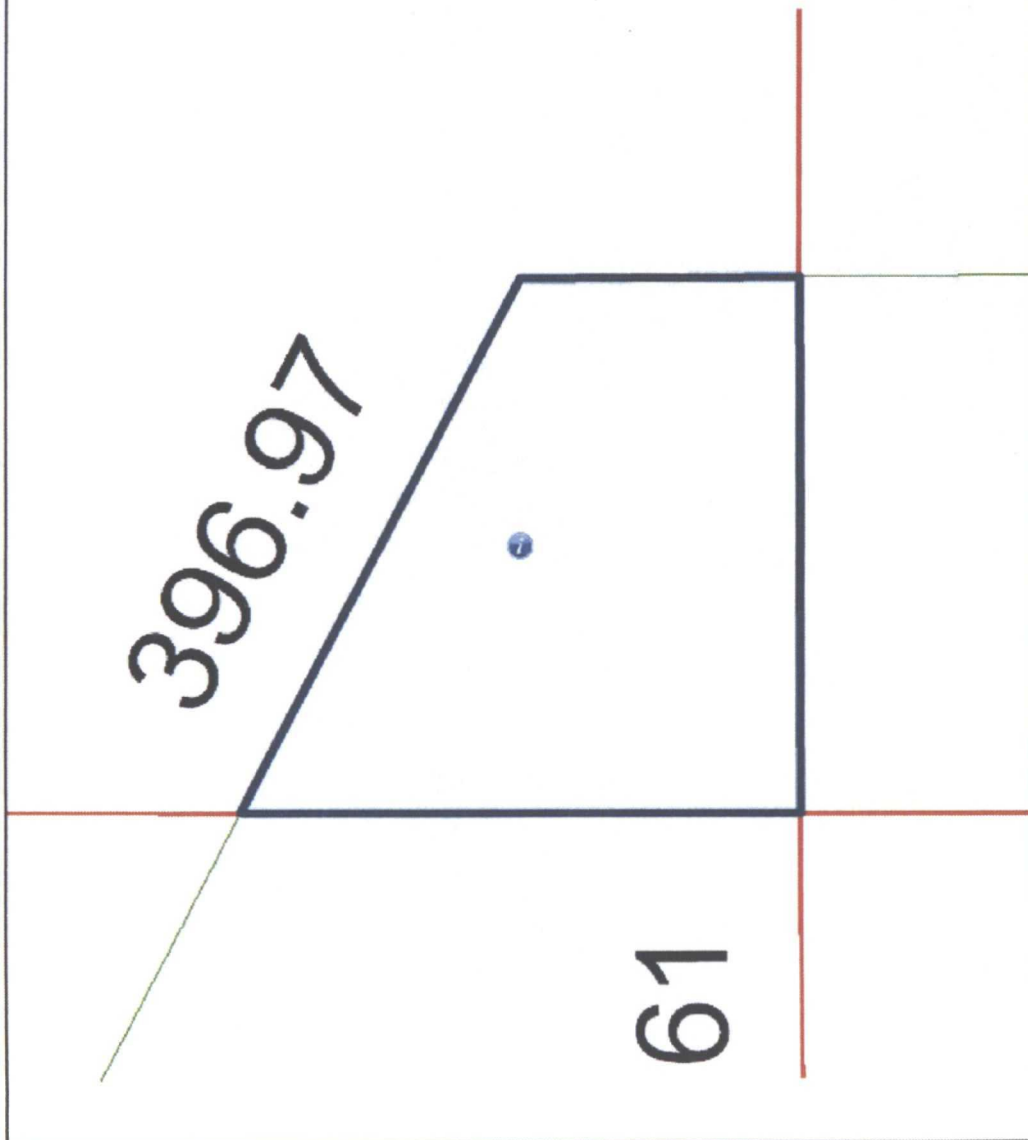
# R360 Artesia LLC

Lea County NM

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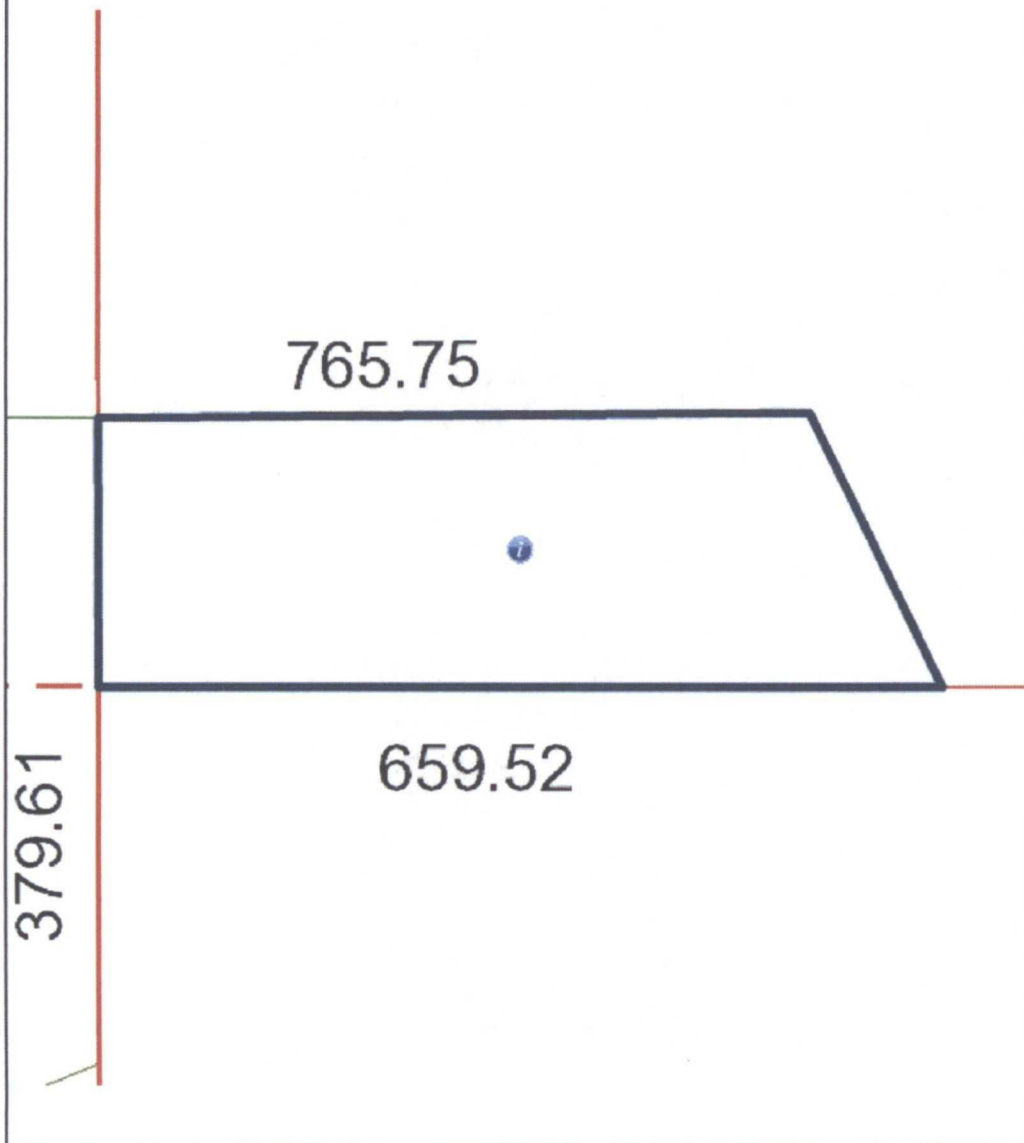
# R360 Artesia LLC

Lea County NM

Printed Fri Nov 16 2012

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Section	Sub-Division	Twp or Blk	Range/Survey	Acres	County
5		17	32		Lea

TAKE-OFF WORKSHEET POSTING DATE \_\_\_\_\_ 20\_\_\_\_

Vol/ Page	Instr Type	Date of Instrument Date Filed	Grantor	Grantee	Remarks
4 137	PAT	12/14/21 6/27/22	USA	LOUISE M. COUTCH	SW 1/4 + SE 1/4
5 228	WD	9/17/26 10/2/26	LOUISE M. KUTCHUSHI	J W Taylor	"
4 44	PAT	6/8/21 7/5/21	USA	John W. Taylor	1/2 NW 3/4 5/2 NW 5/2 NE
50 368	ROW	12/13/37 2/15/38	AC Taylor	Lea County	NW + SW
50 373	ROW	12/6/37 2/15/38	J W Taylor	Lea County	SW 1/4 + SE 1/4
51 272	OGL	8/5/29 2/25/44	USA	GRACE H. MCKELL	SW 1/4
58 307	OGL	8/1/45 8/6/45	USA	BUTTS O.I. Co.	SE SW 1/4
30 284	P/OGL	10/31/44 1/22/45	Mol/omar Oil & Gas	"	SW
34 3	P/OGL	10/31/44 9/27/45	Mol/omar O.I. & Gas	"	N 1/2 SW 1/4
65 535	OGL	1/1/48 12/22/47	USA	BUTTS O.I. Co.	? maybe NW + SW
178 418	ROW OGL	8/1/59 8/24/59	USA	G B Suppes & B E Kennedy	SW 1/4



**CAPROCK TITLE**  
MIDLAND, LLC

315 E Wall St  
Midland, Texas 79701  
432-687-3232

Trina S Palafox  
Operations Manager

Section	Sub-Division	Twp or Blk	Range/Survey	Acres	County
6		17	32		

TAKE-OFF WORKSHEET POSTING DATE \_\_\_\_\_ 20\_\_\_\_

[illegible]

CAPROCK TITLE  
MIDLAND, LLC

315 E Wall St  
Midland, Texas 79701  
432-687-3232

Trina S Palafox  
*Operations Manager*







# SCHUTZ ABSTRACT CO., INC.

P.O. BOX 973

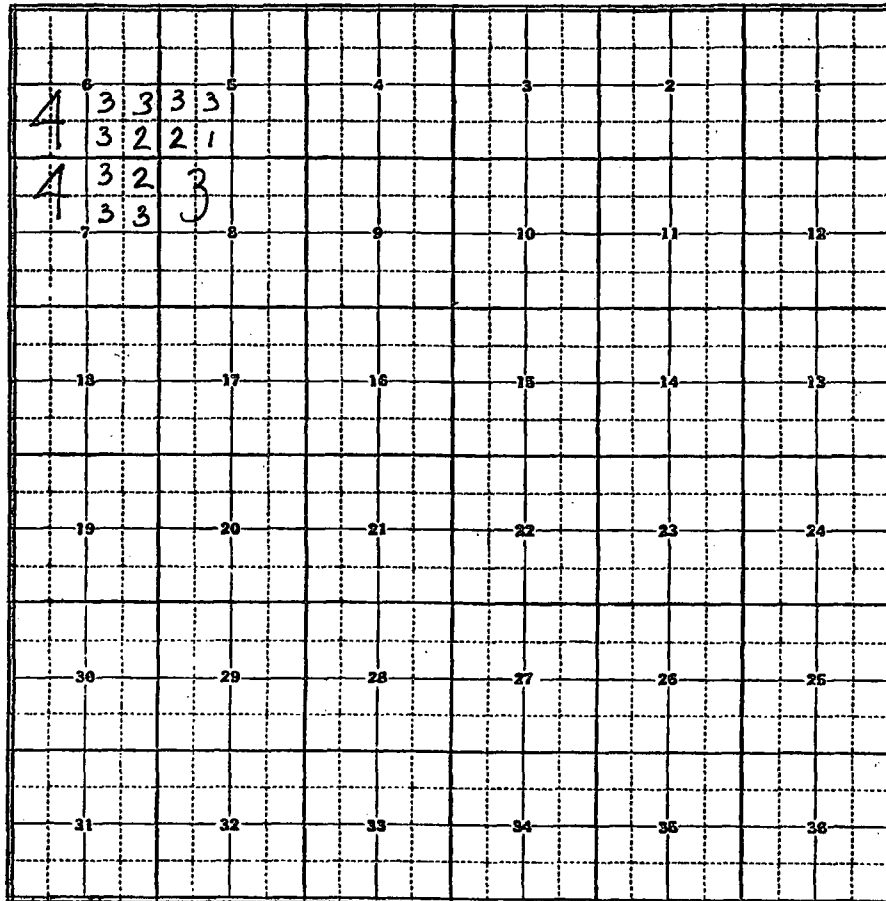
(505) 982-0130

SANTA FE, NEW MEXICO 87504

T. 17 South R. 32 East

Lea County

11/28/12



RED - STATE LAND  
BLUE - FEE LAND

1. NM 97887

2. LC 061434

3. LC 058775

4. LC 029406-B

NOV 28 2012

LC 061434  
out of LC 058775  
and LC 029406-A

T.17 South - R.32 East  
Section 05:SWSW  
06:SESE  
07:NENE

Renewal Lease  
07/31/2019

Lessee :

ConocoPhillips Co.  
P.O. Box 7500  
Bartlesville, OK 74005

RUN SHEET:

The base lease, LC 029406-A expired and the case file was sent to the Federal Archives in Denver, CO, so we are unable to examine instruments filed with that lease.

Partial assignment dated 2/27/40 from Grace M. Mitchell and Wm. Mitchell to The Green Bay Company 100%, reserving 7.5% overriding royalty. New serial # LC 058775 is given to this land.

Partial assignment dated 4/2/43 from The Green Bay Co. to G.B. Suppes 100% as to sec. 5: SWSW, sec. 6: SESE, sec. 7:NENE. New serial # LC 061434 is given to this land.

Application for renewal lease filed 4/21/49 states that the overriding royalty is owned as follows: M.E. Baish 1/2 of 7.5%, Sterling S. Beardsley 1/7 of 7.5%, Grace H. Mitchell 1/7 of 7.5% Lloyd R. Simon 1/14 of 7.5%, Malcolm T. Mitchell 1/21 of 7.5%, Janet M. Jacobsen 1/21 of 7.5% and Margaret M. Ogden 1/21 of 7.5%. Reference is made to an oil payment of \$40,000 payable out of 1/8 of 7/8 owned by Buffalo Oil Co.

Contract and operating agreement dated 2/20/50 between G.B. Suppes and Willa Suppes and Buffalo Oil Co. Suppes grants to Buffalo Oil Co. the operating rights below 4,500' in exchange for the release of the oil payment. Buffalo also agrees to pay to Suppes \$12,000 out of 1% of the gross proceeds from all horizons below 4,500'.

Agreement relative to overriding royalty dated 8/5/49 between G.B. and Willa Suppes and the overriding royalty owners wherein the overriding royalty owners agree that if the average prod. per well per day is 15 barrels or less, the overriding royalty in excess of 5% shall be suspended and shall not be effective and the proceeds payable to the royalty owners shall be reduced proportionately so that during such periods, the total ORR obligation shall be 5%.

Renewal lease LC 061434 issued 8/1/49 to G.B. Suppes with a sliding scale royalty to the USA.

Assignment dated 10/31/50 from G.B. Suppes and Willa Suppes to B.E. Kennedy 1/2 interest in the lease and 1/2 interest in the oil payment of \$12,000 payable out of 1%.

Assignment and conveyance dated 8/12/58 from Buffalo Oil Co. to Continental Oil Co. 100% below 4,500'.

Partial assignment dated 3/11/59 from G.B. Suppes and Willa Suppes to B.E. Kennedy 50%. This is a corrective assignment to replace the assignment dated 10/31/50.

Renewal lease LC 061434 issued 8/1/59 to G.B. Suppes and B.E. Kennedy with

a sliding scale royalty to the USA.

Assignment dated 4/30/59 from G.B. Suppes and Willa Suppes to A.D. Kennedy and R.B. Kennedy 1/2 interest in the lease and 1/2 interest in the oil payment of \$12,000.

Assignment dated 12/31/59 from Kennedy Oil Co., a partnership composed of B.E. Kennedy, a widower, R.B. Kennedy and Elizabeth Kennedy, and A.D. Kennedy and Ruby V. Kennedy to Kennedy Oil Co. 100% and all interest in the oil payment of \$12,000.

Operating Agreement dated 10/2/61 from Kennedy Oil Co. to Water Flood Associates from the surface to the base of the Lovington Sand formation, reserving a production payment of \$70,000 out of 50%, then after payout, \$150,000 out of 25%.

Renewal lease LC 061434 issued 8/1/69 to Kennedy Oil Co. with a sliding scale royalty to the USA.

Assignment dated 12/31/69 from Kennedy Oil Co. to Continental Oil Co. 100%, except the production payments reserved by assignor in operating agreement dated 10/2/61.

Assignment of operating rights dated 12/31/69 from Continental Oil Co. to Kennedy Oil Co. 100% from the base of the Lovington Sand to 4,500'.

Renewal lease LC 061434 issued 8/1/79 to Continental Oil Co. with a sliding scale royalty to the USA.

Decision of 10/24/79 recognizes the name change from Continental Oil Co. to Conoco, Inc.

Assignment of overriding royalty dated 12/29/83 from El Paso Nat. Bank, as Trustee of the Baish Trust Estate to Margaret Baish Masters 77.7778% of 3.75%, Betty Baish Strohmeier 11.1111% of 3.75%, Karen Elizabeth Charles 3.7037% of 3.75%, Katherine Mary Scott 3.7037% of 3.75%, and Mary Elizabeth Baish 3.7037% of 3.75% as to sec. all lands in the lease, (including NWSW sec. 5 which is not in this lease).

Renewal lease LC 061434 issued to Conoco Inc. on 8/1/89 with a 12.5% royalty to the USA.

Renewal lease LC 061434 issued to Conoco Inc. on 8/1/99 for 20 years with a 12.5% royalty to the USA. This is the final renewal of the lease.

Conoco Inc. merged into ConocoPhillips Co.

#### OPERATING RIGHTS:

From the surface to the  
base of the Lovington Sand:

Water-Flood Associates, Inc.  
2211 Continental Nat. Bank Bldg.  
Ft. Worth, TX

100%

From the base of the Lovington  
Sand to 4,500':

Kennedy Oil Co.

100%

P.O. Box 151  
Artesia, NM

Below 4,500':

Lessee 100%

OVERRIDING ROYALTY:

Margaret Baish Masters 77.7778% of 3.75%  
R.D. #4, Box 848  
Harrisburg, PA 17112

Betty Baish Strohmeier 11.1111% of 3.75%  
5362 East Rosewood  
Tucson, AZ 85711

Karen Elizabeth Charles 3.7037% of 3.75%  
110 Hudson Ave.  
Atloona, PA 16602

Katherine Mary Scott 3.7037% of 3.75%  
809 Sheridan St.  
Altoona, PA 16602

Mary Elizabeth Baish 3.7037% of 3.75%  
102 Logan Ave.  
Altoona, PA 16602

Sterling S. Beardsley 1/7 of 7.5%  
784 Park Ave.  
New York, NY

Grace H. Mitchell 1/7 of 7.5%  
c/o Janet M. Jacobsen  
162 E. 83rd St.  
New York, NY

Lloyd R. Simon 1/14 of 7.5%  
106 N. Osborn  
Artesia, NM

Malcolm T. Mitchell 1/21 of 7.5%  
c/o W.T. Bonn & Co.  
120 Broadway  
New York, NY

Janet M. Jacobsen 1/21 of 7.5%  
162 E. 83rd St.  
New York, NY

Margaret M. Ogden 1/21 of 7.5%  
Wilson Point  
S. Norwalk, Conn.

Production payment below 4,500': \$12,000 out of 1%-  
Lessee (merged with leasehold)

From the surface to the base of the Lovington Sand: production payment of \$70,000 out of 50%, then after payout, \$150,000 out of 25%:  
Kennedy Oil Co.

12.5% Royalty to U.S.A

Notes:

NM 97887

T.17 South - R.32 East  
Section 05:SESWL-H.B.P  
12/1/1996

## Lessee :

ConocoPhillips Co.  
P.O. Box 7500  
Bartlesville, OK 74005

## RUN SHEET:

Competitive lease NM 97887 issued 12/1/96 to Shaw Interests Inc. for 10 yrs. with 12.5% royalty to the USA.

Assign. of record title dated 3/4/97 from Shaw Interests Inc. to Conoco Inc. 100% as to all lands, no overriding royalty reserved.

Decision of 3/20/07 extended the lease for 2 yrs. to 11/30/2008 due to drilling of a well on lease NM 97887 in sec. 5: SESW. The well was completed at a total depth of 7,705' in the ABO formation. Proof of the 11th yr. rental was submitted to the BLM and it was paid before the anniversary date of 12/1/06, however the rental is deficient by \$40.00. 15 days were allowed to submit the rental deficiency.

The \$40 deficient rental payment was received.

Conoco Inc. merged into ConocoPhillips Co.

## OPERATING RIGHTS:

Lessee

100%

## OVERRIDING ROYALTY:

None filed of record.

12.5 % ROYALTY TO THE USA

## Notes:

NOV 28 2012

LC 058775  
out of LC 029406-A

T.17 South - R.32 East  
Section 05:N2SW  
06:N2SE,SWSE  
07:NWNE,S2NE  
08:NW

Renewal Lease  
07/31/2019

Lessee :

ConocoPhillips Co.  
P.O. Box 7500  
Bartlesville, OK 74005

RUN SHEET:

The base lease, LC 029406-A has expired and been sent to the Federal Archives in Denver, CO. We are unable to examine any instruments filed with this lease.

Partial Assignment dated 2/27/40 from Grace H. and William Mitchell to The Green Bay Company as to sec. 5: N2SW,SWSW, sec. 6: SE, sec. 7: NE and sec. 8: NW, reserving 7.5% overriding royalty. New serial # LC 058775 is given to this land.

Assignment dated 2/19/44 from The Green Bay Company to Maljamar Oil & Gas Corp.

Assignment dated 10/31/44 from The Maljamar Oil & Gas Corp. to the Buffalo Oil Co. and J. Feldman in equal proportions.

Assignment dated 12/30/47 from J. Feldman and wife, Sara B. Feldman to the Buffalo Oil Co. 50%.

Operating agreement dated 8/2/48 between Buffalo Oil Co. and G.B. Suppes, granting to Suppes the right to explore, test and develop sec. 5: NWSW, sec. 6:NESE from the surface to 4,500'.

Application for renewal lease dated 2/7/49 states that the 7.5% overriding royalty is held as follows: M.E. Baish 1/2, Sterling S. Beardsley 1/7, Grace H. Mitchell 1/7, Lloyd R. Simon 1/14, Malcolm T. Mitchell 1/21, Janet M. Jacobsen 1/21, and Margaret M. Ogden 1/21.

Agreement relative to payment of overriding royalty dated 11/22/48 provides that in the event the average production per well per day is 15 barrels or less, the overriding royalty in excess of 5% shall be suspended. The agreement was executed by Buffalo Oil Company and all of the above described overriding royalty owners.

Renewal lease LC 058775 issued 8/1/49 to Buffalo Oil Co. with a sliding scale royalty to the USA.

Assignment of operating rights dated 10/31/49 from G.B. Suppes and Willa Suppes to B.E. Kennedy 1/2 interest from the surface to 4,500' as to sec. 5: NWSW and sec. 6: NESE.

Assignment dated 8/12/58 from Buffalo Oil Co. to Continental Oil Co. 100%.

Renewal lease LC 058775 issued 8/1/59 to Continental Oil Co. with a sliding scale royalty to the USA.

Assignment of operating rights dated 4/30/59 from G.B. and Willa Suppes to

A.D. Kennedy and R.B. Kennedy in equal shares, 50% as to sec. 5: NWSW and sec. 6: NESE from the surface to 4,500'.

Assignment of operating agreements dated 12/31/59 from Kennedy Oil Co., a partnership composed of B.E. Kennedy, R.B. Kennedy and A.D. Kennedy, joined by Elizabeth Jean Kennedy, wife of R.B. Kennedy and Ruby V. Kennedy, wife of A.D. Kennedy to Kennedy Oil Company, a New Mexico corp. all rights as to sec. 5: NWSW, sec. 6: NESE from the surface to 4,500'.

Operating Agreement dated 10/2/61 from Kennedy Oil Co. to Water-Flood Associates, Inc. sec. 5: NWSW, sec. 6: NESE from the surface to the base of the Lovington Sand, reserving a production payment of \$70,000 payable out of 50%, then upon payout, 25% until \$150,000 is received.

Renewal lease LC 058775 issued 8/1/69 to Continental Oil Co. with a sliding scale royalty to the U.S.A.

Renewal lease LC 058775 issued 8/1/79 to Continental Oil Co. with a sliding scale royalty to the U.S.A.

Decision of 10/24/79 recognizes the name change from Continental Oil Co. to Conoco, Inc.

Assignment of overriding royalty dated 12/29/83 from El Paso National Bank, as trustee of the Baish Trust Estate to Margaret Baish Masters 77.7778%, Betty Baish Strohmeier 11.1111%, Karen Elizabeth Charles 3.7037%, Katherine Mary Scott 3.7037%, and Mary Elizabeth Baish 3.7037% of 3.75% as to sec. 5: NESW, sec. 6: N2SE, SWSE, sec. 7: W2NE, SENE, and sec. 8: NW.

Renewal lease LC 058775 issued 8/1/89 to Conoco, Inc. for 10 yrs. with 12.5% royalty to U.S.A.

Renewal lease LC 058775 issued 8/1/99 to Conoco Inc. for 20 years with a 12.5% royalty to USA. This is the final renewal of the lease.

Conoco Inc. merged into ConocoPhillips Co.

#### OPERATING RIGHTS:

Sec. 5: NESW, sec. 6: NWSE, SWSE,  
sec. 7: NWNE, S2NE, sec. 8: NW  
all depths:

Lessee 100%

Sec. 5: NWSW, sec. 6: NESE  
from the surface to the  
base of the Lovington Sand:

Water-Flood Associates Inc. 100%  
2211 Continental Nat. Bank Bldg.  
Ft. Worth, TX

From the base of the Lovington  
Sand to 4,500':

Kennedy Oil Co. 100%  
Box 151  
Artesia, NM



Below 4,500':

Lessee

100%

\*Note: We are unable to determine if the base of the Lovington Sand is the same as 4,500'.

OVERRIDING ROYALTY:

Sterling S. Beardsley	1/7 of 7.5%
Grace H. Mitchell	1/7 of 7.5%
Lloyd R. Simon	1/14 of 7.5%
Malcolm T. Mitchell	1/21 of 7.5%
Janet M. Jacobson	1/21 of 7.5%
Margaret M Ogden	1/21 of 7.5%
M.E. Baish as to sec. 5: NWSW only	1/2 of 7.5%

The following interests pertain to all lands except sec. 5: NWSW

Margaret Baish Masters R.D. #4, Box 848 Harrisburg, PA 17112	77.7778% of 3.75%
Betty Baish Strohmeier 5362 East Rosewood Tucson, AZ 85711	11.1111% of 3.75%
Karen Elizabeth Charles 110 Hudson Ave. Altoona, PA 16602	3.7037% of 3.75%
Katherine Mary Scott 809 Sheridan St. Altoona, PA 16602	3.7037% of 3.75%
Mary Elizabeth Baish 102 Logan Ave. Altoona, PA 16602	3.7037% of 3.75%

Production payment as to sec. 5: NWSW, sec. 6: NESE from the surface to the base of the Lovington Sand: \$70,000 out of 50%, then after payout, \$150,000 out of 25%-

Kennedy Oil Co.  
Box 151  
Artesia, NM

12.5% Royalty to U.S.A

Notes:

NOV 28 2012

LC 029406-B

T.17 South - R.32 East  
Section 06:LOTS 6,7,E2SW  
07:LOTS 1-2,E2NWL-H.B.P.  
01/01/48

Lessee :

ConocoPhillips Co.  
Box 7500  
Bartlesville, OK 74005

## RUN SHEET:

We are unable to examine instruments filed with LC 029406-A which pertain to this file because the lease expired and was sent to the Federal Archives in Denver, CO.

Lease LC 029406-B issued 6/8/34 to Grace H. Mitchell for 20 yrs. with the right to renew for successive 10 yr. periods with a sliding scale royalty to the USA.

Assign. dated 2/27/40 from Grace and Wm. Mitchell to The Green Bay Co. 100% as to all lands.

Assign. dated 2/19/44 from The Green Bay Co. to Maljamar Oil & Gas Corp. 100% as to all lands.

Assign. dated 10/31/44 from Maljamar Oil & Gas Corp. to the Buffalo Oil Co. 1/2 and J. Feldman 1/2.

Exchange lease LC 029406-B issued 1/1/48 to Buffalo Oil Co. and J. Feldman for 5 years with a sliding scale royalty to the USA.

Assign. dated 12/30/47 from J. Feldman and Sara Feldman to the Buffalo Oil Co. 1/2.

Assign. dated 8/12/58 from Buffalo Oil Co. to Continental Oil Co. 100%, subject to production payment dated 4/16/58, from Buffalo Oil Co. to the Trustees of Buffalo Oil Co., in dissolution.

The 1st pages of the following instruments are filed of record: Assignment & conveyance of production payment and of crude oil purchase contract dated 9/1/59 from Pargol Corp. to Bourg Oil Properties, Ltd., Assign. and conveyance of production payment and of crude oil purchase contract dated 10/1/63 from Bourg Oil Properties, Ltd. to Gas Properties Co., Second Supplement to mortgage, deed of trust and assignment dated 10/1/63 from Gas Properties Co., Bourg Oil Properties, Ltd. to Morgan Guaranty Trust Co. of New York, Wesley L. Baker, Trustee, Morgan Guaranty Trust Co. of New York, The Chase Manhattan Bank, 1st Nat. City Bank and Continental Bank & Trust Co. of Chicago.

Decision of 10/24/79 recognizes the name change from Continental Oil Co. to Conoco, Inc.

Assignment dated 12/21/82 from Conoco, Inc. to Petro-Lewis Corp. 7.6695% as to all lands.

Assignment dated 12/21/82 from Conoco, Inc. to Petro-Lewis Corp. 4.12973% as to all lands.

Assignment dated 12/21/82 from Conoco, Inc. to Partnership Properties Co.

9.2305% as to all lands.

Assignment dated 12/21/82 from Conoco, Inc. to Partnership Properties Co.  
4.97027% as to all lands.

Assignment dated 12/30/82 from Petro-Lewis Corp. to Partnership Properties Co. 11.79923% as to all lands.

Assignment dated 5/1/88 from Partnership Properties Co. to FMP Operating Co. 26% as to all lands.

Assignment of record title dated 12/1/89 from FMP Operating Co. to Conoco, Inc. sec. 6: Lots 6-7, E2SW, sec. 7: Lots 1-2, E2NW 26%.

The royalty rate was reduced to 3.7% effective 10/1/92 due to the stripper royalty rate reduction program.

Letter of 5/1/97 stated that the royalty rate was reduced to 2.9% effective 12/1/96 to 11/30/97, due to the stripper royalty rate reduction program.

Letter of 7/21/03 stated that the royalty rate was reduced to 2.9% effective 2/1/02 to 1/31/03, due to the stripper royalty rate reduction program.

Letter of 6/6/05 stated that the royalty rate was reduced to 2.1% effective 5/1/04 to 4/30/05, due to the stripper royalty rate reduction program.

Letter of 6/6/05 stated that the royalty rate was reduced to 2.9% effective 4/1/03 to 3/31/04, due to the stripper royalty rate reduction program.

Conoco Inc. merged into ConocoPhillips Co.

Letter of 9/13/06 stated that the royalty rate was reduced to 2.1% effective 6/1/05 to 1/31/06, due to the stripper royalty rate reduction program.

COG O&G LP changed its name to COG Operating LLC.

OPERATING RIGHTS:

All depths:

ConocoPhillips Co.

100%

OVERRIDING ROYALTY:

None filed of record.

Sliding Scale ROYALTY TO THE USA

Notes:

## Jones, William V., EMNRD

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**From:** Jones, William V., EMNRD  
**Sent:** Thursday, November 08, 2012 4:23 PM  
**To:** Joe Rodriguez; Mark Larson  
**Cc:** Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; Shapard, Craig, EMNRD; Wesley\_Ingram@blm.gov  
**Subject:** Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA Wolfcamp perforations  
**Attachments:** EddyNM\_NASH\_53\_SWD.pdf

Hello Joe and Mark,

I reviewed your application and have just a few requests that hopefully will be relatively easy:

- a. Your application says the Wolfcamp formation would be targeted, so the disposal must be limited to that formation. I don't see any defined depth's for the base of the Wolfcamp in any files of wells near here. Would you estimate the top of the Pennsylvanian in this area? One source for you would be Craig Shapard, our geologist in Artesia or one of the geologists with the BLM.
- b. It seems this Wolfcamp has been penetrated about 2 miles away without success, but for this well, what diagnostics would R360 use to make sure there are no recoverable oil or gas within the Wolfcamp formation? We commonly see mudlogs and logging programs on proposed new drilled disposal wells.
- c. Send a "post conversion" wellbore diagram with the injection tubing and packer in place in the well.
- d. Send a signed statement stating that no Class I fluids would be disposed into this Class II water disposal well.
- e. The notice requirements for injection/disposal goes out to all "affected persons" which would be owners of separately owned tracts of lands partially or wholly located within a ½ mile circle around this proposed well. So if there is not an operator within a tract, the lessee of that tract, if no lessee, then the mineral owner. I see in this application the "operators" within 2 miles, but not the "affected persons" within ½ mile. The minerals around this well seem to be wholly administered by the BLM, so this proposed well would be a "federal" well and there could be some mineral lessees. Please identify these affected persons by sending something like the attached. Of course eventually you will need an approved APD from the BLM but the BLM should also be formally noticed of this disposal application by certified mail.

William V. Jones, P.E.

505-476-3448W 505-476-3462F  
Engineering Bureau, Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

This does not match with what was sent on the original e-mail attachment.

Sincerely,  
Wesley W. Ingram  
Supervisory Petroleum Engineer  
Bureau of Land Management  
Carlsbad Field Office  
620 E. Greene Street  
Phone: 575-234-5982  
Fax: 575-234-5927

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**From:** Mark Larson [<mailto:Mark@laenvironmental.com>]  
**Sent:** Wednesday, November 14, 2012 4:35 PM  
**To:** Jones, William V., EMNRD; Ingram, Wesley W  
**Cc:** Joe Rodriguez  
**Subject:** RE: Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA Wolfcamp perforations

Dear Mr. Jones and Mr. Ingram,  
Please find the attached well plat which shows the well to located in Lea County, New Mexico and outside the potash area.  
Sincerely,

Mark J. Larson, P.G.  
Sr. Project Manager / President  
507 N. Marienfeld Street, Ste. 200  
Midland, Texas 79701  
(432) 687-0901 (office)  
(432) 687-0456 (fax)  
(432) 556-8656 (cell)  
[mark@laenvironmental.com](mailto:mark@laenvironmental.com)



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**From:** Ingram, Wesley W [<mailto:wingram@blm.gov>]  
**Sent:** Wednesday, November 14, 2012 4:28 PM  
**To:** Jones, William V., EMNRD; Joe Rodriguez; Mark Larson  
**Cc:** Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; Shapard, Craig, EMNRD  
**Subject:** RE: Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA Wolfcamp perforations

Will and others,

The BLM did not receive notification on this well. This well is within an exploratory unit and within potash. The BLM will object to this proposal as we do not approve disposal wells within a unit unless operated by the unit operator for the unit produced water.

The title line for the e-mail has the start of an API number that would be in Lea County. The proposed well is in Eddy County.

Sincerely,  
Wesley W. Ingram  
Supervisory Petroleum Engineer

**Jones, William V., EMNRD**

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**From:** Ingram, Wesley W <wingram@blm.gov>  
**Sent:** Wednesday, November 21, 2012 7:20 AM  
**To:** Jones, William V., EMNRD  
**Cc:** Mark Larson; Gonzales, Elidio L, EMNRD  
**Subject:** RE: Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA Wolfcamp perforations

Will,

The BLM has not received a C-108 package on this well to my knowledge. Since we have had mixed maps regarding this well, the BLM will maintain its objection until such time as a C-108 package is received and can be reviewed.

Sincerely,  
Wesley W. Ingram  
Supervisory Petroleum Engineer  
Bureau of Land Management  
Carlsbad Field Office  
620 E. Greene Street  
Phone: 575-234-5982  
Fax: 575-234-5927

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**From:** Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]  
**Sent:** Friday, November 16, 2012 8:26 AM  
**To:** Ingram, Wesley W  
**Cc:** Mark Larson; Gonzales, Elidio L, EMNRD  
**Subject:** RE: Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA Wolfcamp perforations

Wesley,  
They will likely be sending out more notices to people, from my records, all lands around here are federal and some are likely leased – and the APD to drill this well would be out of your office.

Since the well has not been drilled and the formation tops are so sketchy, I would likely just require the operator to mudlog and log the well and have the tops picked by our geologist and then amend the permit later to ensure they are in the formation they advertised and our records are accurate.

After you review this, let me know how you guys stand on it?

And have a nice weekend,

Will

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**From:** Ingram, Wesley W [mailto:wingram@blm.gov]  
**Sent:** Wednesday, November 14, 2012 4:43 PM  
**To:** Jones, William V., EMNRD  
**Subject:** RE: Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA Wolfcamp perforations

Will,

Will

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**From:** Mark Larson [mailto:Mark@laenvironmental.com]

**Sent:** Tuesday, November 27, 2012 8:17 AM

**To:** Jones, William V., EMNRD

**Cc:** Joe Rodriguez; Zach Davis

**Subject:** RE: Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA Wolfcamp perforations

Will,

In response to question "e", the petroleum landman, Thomas Magee, has researched the mineral ownership for the area encompassing ½ mile radius of the proposed SWD well. The minerals are owned by the United States of America and administered by the U.S. Bureau of Land Management. Will a drawing showing the mineral ownership and backup documents adequately address this question.

Thanks,

Mark

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**From:** Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

**Sent:** Thursday, November 08, 2012 5:23 PM

**To:** Joe Rodriguez; Mark Larson

**Cc:** Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; Shapard, Craig, EMNRD; Wesley\_Ingram@blm.gov

**Subject:** Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA Wolfcamp perforations

Hello Joe and Mark,

I reviewed your application and have just a few requests that hopefully will be relatively easy:

- a. Your application says the Wolfcamp formation would be targeted, so the disposal must be limited to that formation. I don't see any defined depth's for the base of the Wolfcamp in any files of wells near here. Would you estimate the top of the Pennsylvanian in this area? One source for you would be Craig Shapard, our geologist in Artesia or one of the geologists with the BLM.
- b. It seems this Wolfcamp has been penetrated about 2 miles away without success, but for this well, what diagnostics would R360 use to make sure there are no recoverable oil or gas within the Wolfcamp formation? We commonly see mudlogs and logging programs on proposed new drilled disposal wells.
- c. Send a "post conversion" wellbore diagram with the injection tubing and packer in place in the well.
- d. Send a signed statement stating that no Class I fluids would be disposed into this Class II water disposal well.
- e. The notice requirements for injection/disposal goes out to all "affected persons" which would be owners of separately owned tracts of lands partially or wholly located within a ½ mile circle around this proposed well. So if there is not an operator within a tract, the lessee of that tract, if no lessee, then the mineral owner. I see in this application the "operators" within 2 miles, but not the "affected persons" within ½ mile. The minerals around this well seem to be wholly administered by the BLM, so this proposed well would be a "federal" well and there could be some mineral lessees. Please identify these affected persons by sending something like the attached. Of course eventually you will need an approved APD from the BLM but the BLM should also be formally noticed of this disposal application by certified mail.

William V. Jones, P.E.

505-476-3448W 505-476-3462F

Engineering Bureau, Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

**Jones, William V., EMNRD**

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**From:** Jones, William V., EMNRD  
**Sent:** Monday, January 07, 2013 12:01 PM  
**To:** 'Mark Larson'; Joe Rodriguez  
**Cc:** Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; VonGonten, Glenn, EMNRD  
**Subject:** RE: Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA

Hello Mark,

I can't proceed with this administrative review until the protest from the BLM is withdrawn and then only if no one else has protested.

Regards,

Will Jones

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**From:** Mark Larson [<mailto:Mark@laenvironmental.com>]  
**Sent:** Monday, January 07, 2013 11:10 AM  
**To:** Jones, William V., EMNRD  
**Cc:** Joe Rodriguez  
**Subject:** RE: Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA

Hello Will,

I hope you have a great holiday? Would you please provide a status for the Artesia No. 1 SWD well permit application? On December 6, 2012, Larson & Associates, Inc., on behalf of R360, submitted the additional information requested below. The additional information was submitted in a document titled, "*Addendum Artesia SWD Well No. 1, Permit Application, December 6, 2012*". A copy of the initial application and addendum was also submitted to Mr. Wes Ingram with the BLM in Carlsbad, New Mexico.

Sincerely,

Mark J. Larson, P.G.  
507 N. Marienfeld St., Suite 200  
Midland, Texas 79701  
(432) 687-0901 ( O )  
(432) 556-8656 ( C )



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**From:** Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]  
**Sent:** Tuesday, November 27, 2012 12:02 PM  
**To:** Mark Larson  
**Cc:** Joe Rodriguez; Zach Davis  
**Subject:** RE: Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA Wolfcamp perforations

Mark,

We need to know the location and description of each separately owned tract and who owns each tract – Lessee(s) or if no lessee, then the mineral owner.

Like on the attached....



**Jones, William V., EMNRD**

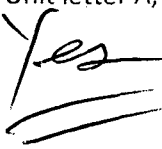
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**From:** Jones, William V., EMNRD  
**Sent:** Saturday, January 12, 2013 3:56 PM  
**To:** Mark Larson; Joe Rodriguez  
**Cc:** 'Ingram, Wesley'; Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD  
**Subject:** RE: FW: Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA Wolfcamp perforations

Mark and Joe,  
The location I have seen proposed for this Federal well is:  
232 FNL and 288 FEL, Unit letter A, Section 7, T17S, R32E, Lea County.  
Is this still true?

Thank You,

Will Jones



**From:** Ingram, Wesley [mailto:wingram@blm.gov]  
**Sent:** Thursday, January 10, 2013 8:07 AM  
**To:** Mark Larson  
**Cc:** Jones, William V., EMNRD; Joe Rodriguez  
**Subject:** Re: FW: Disposal application from R360 Permian Basin LLC: Artesia SWD #1 30-025-NA Wolfcamp perforations

Note to all,

The BLM did not object to the new location. The previous submissions had problems as one was in potash and the other had mixed documents as to the actual location - Eddy vs. Lea County.

Since this will require a Federal APD, we will add the necessary Conditions of Approval to that document.

Sincerely,  
Wesley W. Ingram  
Supervisory Petroleum Engineer  
Bureau of Land Management  
Carlsbad Field Office  
620 E. Greene Street  
Phone: 575-234-5982  
Fax: 575-234-5927

On Wed, Jan 9, 2013 at 3:48 PM, Mark Larson <[Mark@laenvironmental.com](mailto:Mark@laenvironmental.com)> wrote:

Dear Mr. Ingram,

Per the email from Will Jones, I want to follow up on the proposed SWD permit application or addendum that was sent to you on December 6, 2012. The application and addendum is for a proposed commercial SWD well

in 9/4/12

11/8/12 Letter  
12/7/12 addendum  
1/10/13 BLM with Drew

Injection Permit Checklist (11/15/2010)

WFX PMX SWD 1382 Permit Date UIC Qtr

# Wells 1 Well Name(s): ARTESIA SWD #1

API Num: 30-025-NA Spud Date: New New/Old: N (UIC primacy March 7, 1982)

Footages 232' FNL/288' FEL Unit A Sec 7 Tsp 17S Rge 32E County LEA

General Location: 2 mi west of MARTAMAR

Operator: R360 PERMIAN LLC Contact: MARK J. LARSON or Joe B. RODRIGUEZ

OGRID: 28936 RULE 5.9 Compliance (Wells) 0/1 (Finan Assur) OK IS 5.9 OK?

Well File Reviewed X Current Status: No well file

Planned Work to Well: Drill

Diagrams: Before Conversion After Conversion Elogs in Imaging File:

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
	Hole.....	Pipe				
New Existing Surface	17 1/2	13 3/8	900'	-	938 CF	Surf
New Existing Interm	12 1/4	9 5/8	4200	3000'	1973 CF	Surf
New Existing LongSt	8 3/4	7"	10,200'	700'	2300 CF	Surf
New Existing Liner						
New Existing OpenHole						

Depths/Formations: 7540 Depths, Ft. - ABO Formation Tops?

OK 3862 8500/5110 SA WC

Formation(s) Above

Injection TOP:	8,820'	WC	Max. PSI 1764	OpenHole	Perfs
Injection BOTTOM:	10,000'	WC	Tubing Size 2 1/2	Packer Depth 8800'	
Formation(s) Below	10,200' 11,465'	Penn STrom	3 1/2		

ALSO See Surface NM1-030 Permit

Capitan? (Potash?) Noticed? (WIPP?) Noticed? Salado Top/Bot Gink? Hays?

Fresh Water: Depths: No water Formation Perched Wells? Analysis? Affirmative Statement

Disposal Fluid Analysis? Sources: Commercial

Disposal Interval: Analysis? Production Potential/Testing:

Notice: Newspaper Date 9/12 Surface Owner R360 Mineral Owner(s) BLM

RULE 26.7(A) Affected Persons: Alamo/Conoco/COG/Conoco/Hudson/Elmer/Mark/Touber

AOR: Maps? Well List? Producing in Interval? NO Wellbore Diagrams?

Active Wells 0 Repairs? Which Wells?

P&A Wells 0 Repairs? Which Wells?

Issues: MUD LOG / ELOG / adjacent Perm & NEDD Request Sent Reply: