

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
RECEIVED OGD - Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



2014 SEP 30 PM 4:14
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 _____
- ConocoPhillips Company
Red Hills West 16 State SWD 1
SWD; Delaware (96100)
D-16-26s-32e Lea County NM
30-025-Pending
Pool
SWD; Delaware
96100
- [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.

Brian Wood

Print or Type Name

Signature

Consultant

Title

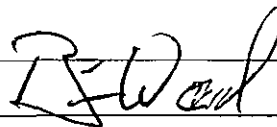
brian@permitswest.com

e-mail Address

9-29-14

Date

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance XXX Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: CONOCOPHILLIPS COMPANY
ADDRESS: 600 N. DAIRY ASHFORD RD., HOUSTON TX 77079
CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120
- 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 XXX 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: Red Hills West 16 State SWD 1
30-025-
SWD; Delaware
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: BRIAN WOOD  TITLE: CONSULTANT
SIGNATURE: _____ DATE: SEPT. 24, 2014
E-MAIL ADDRESS: brian@permitswest.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.

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.

ConocoPhillips Company
Red Hills West 16 State SWD 1
1226' FNL & 893' FWL Sec. 16, T. 26 S., R. 32 E.
Lea County, New Mexico

PAGE 1

I. Goal is to drill a 7400' deep saltwater disposal well. Disposal interval will be 4855' - 7400' in the SWD; Delaware (96100).

II. Operator: ConocoPhillips Company (OGRID: 217817)
Operator phone number: (281) 206-5282 (Kristina Mickens)
Operator address: 600 North Dairy Ashford Road, Houston TX 77079

Contact for Application: Brian Wood (Permits West, Inc.)
Phone: (505) 466-8120

III. A. (1) Lease: NM State Land Office lease LG-3620-0000
Lease Size: 640 acres (see Exhibit A for map and C-102)
Closest Lease Line: 893'
Lease Area: all Sec. 16, T. 26 S., R. 32 E.

A. (2) Surface casing (9-5/8", 40#, L-80, BTC) will be set at 785' (70' into the Rustler) in a 12-1/4" hole and cemented to the surface with 366 sacks (555 cubic feet) Class C. Lead with 194 sacks ($\times 1.68 \text{ feet}^3/\text{sack} = 326 \text{ cubic feet}$) mixed at 13.7#. Tail with 172 sacks ($\times 1.33 \text{ feet}^3/\text{sack} = 229 \text{ cubic feet}$) mixed at 14.8#. Excess = 125%

Production casing (7", 26#, J-55, LTC) will be set at 4855' (325' into the Olds sand) in an 8-3/4" hole and cemented to the surface with 702 sacks (1573 cubic feet) Class C. A DV tool will be set between 4300' and 4600' depending on drilling conditions. Lead with 535 sacks ($\times 2.52 \text{ feet}^3/\text{sack} = 1348 \text{ cubic feet}$) mixed at 11.9#. Tail with 167 sacks ($\times 1.35 \text{ feet}^3/\text{sack} = 225 \text{ cubic feet}$) mixed at 14.8#.

A 6-1/8" open hole will be drilled to a TD of 7400' (493' into the Brushy Canyon).

- A. (3) Tubing will be 3.5", 9.3#, L-80, IPC. Setting depth will be $\approx 4800'$. (Disposal interval will be 4855' to 7400'.)
- A. (4) A Baker Hornet nickel-coated packer will be set at $\approx 4775'$. That is 80' above the top (4855') of the open hole disposal interval.
- B. (1) Disposal zone will be the SWD; Delaware (96100).
- B. (2) Disposal interval will be 4855' to 7400'.
- B. (3) The well will be drilled as a disposal well.
- B. (4) The well has not been previously perforated. (No spud yet.)
- B. (5) Bottom (4585') of the closest producing zone above the disposal zone is $\geq 270'$ above the top (4855') of the open hole. That producing zone is the Olds sand and is part of the upper Bell Canyon. Four continuous shale stringers separate the 2 zones. Top (8250') of the closest producing zone (Bone Spring) below the disposal zone is $\geq 850'$ below the lowest proposed perforation (7400'). See Exhibit B for more detail on the geologic analysis.

IV. This is not an expansion of an existing injection project. It is disposal only.

V. Exhibit C shows the 17 existing wells (1 SWD + 4 P&A + 12 oil) within a half-mile radius. Exhibit D shows all 106 existing wells (75 oil or gas wells + 22 P & A wells + 4 disposal + 4 water supply + 1 monitor) within a two-mile radius.

Exhibit E shows all leases and lessors (only BLM and State) within a half-mile radius. Exhibit F shows all leases and lessors (State and BLM) within a two-mile radius. Details on the leases within a half-mile radius are:

ConocoPhillips Company
Red Hills West 16 State SWD 1
1226' FNL & 893' FWL Sec. 16, T. 26 S., R. 32 E.
Lea County, New Mexico

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<u>T. 26 S., R. 32 E.</u>	<u>Lessor</u>	<u>Lease Number</u>	<u>Lessee</u>
SWSE Sec. 8	BLM	NMNM-105560	Mewbourne
SESE Sec. 8	BLM	NMNM-113967	Devon
SW4 & SWSE Sec. 9	BLM	NMNM-113968	Devon
NW4, W2NE4, N2SW4, & NWSE Sec. 16	NMSLO	LG-3620-0000	EOG
NE4 & N2SE4 Sec. 17	BLM	NMLC-068281B	ConocoPhillips

VI. All 17 wells within a half mile radius penetrated the Delaware. A summary of the penetrators' construction details is attached as Exhibit G. Diagrams of plugged wells are also in Exhibit G. Wells in or near the area of review are:

API	Operator	Well	T26S, R32E, Unit- Section (SHL)	MD	Status	Zone	feet from Red Hills West 16 State SWD 1 to SHL
3002520572	Holt & Hissom	State 1	D-16	4534	P & A	Mason; Delaware, East	623
3002527525	R. H. Forrest Oil	Ohio State 1	D-16	4449	O	Mason; Del., E.	693
3002527526	R. H. Forrest Oil	Ohio State 2	E-16	4508	O	Mason; Del., E.	784
3002540414	ConocoPhillips	Red Hills West 16 State 5H	D-16	13616	O	Jennings; Upper Bone Spring Shale	1078
3002540410	ConocoPhillips	Red Hills West 16 State 1H	D-16	13434	O	Jennings; UBSS	1089
3002540411	ConocoPhillips	Red Hills West 16 State 2H	C-16	13400	O	Jennings; UBSS	1512
3002540415	ConocoPhillips	Red Hills West 16 State 6H	C-16	14012	O	Jennings; UBSS	1548
3002540605	Mewbourne	Red Hills West Unit 6H	N-9	13980	O	Jennings; UBSS	1588
3002528259	Tempo Energy	Exxon Federal 2	M-9	4545	P & A	SWD; Delaware	1958

ConocoPhillips Company
Red Hills West 16 State SWD 1
1226' FNL & 893' FWL Sec. 16, T. 26 S., R. 32 E.
Lea County, New Mexico

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3002539902	Mewbourne	Red Hills West Unit 1H	P-8	13513	O	Jennings; UBSS	2021
3002528245	Tempo Energy	State NNG 1	L-16	4469	O	Mason; Del., E.	2200
3002508258	R. N. Enfield	Ohio State 1	K-16	4588	P & A	Mason; Del., E.	2392
3002527358	Tempo Energy	Exxon Forrest Federal 1	P-8	4444	SWD	SWD; Delaware	2454
3002525064	Tempo Energy	State NNG 1	L-16	4469	P & A	Mason; Del., E.	2505
3002540412	ConocoPhillips	Red Hills West 16 State 3H	B-16	12877 planned	O	Jennings; UBSS	2660
SHL >2640', but horizontal well bore within 2640'							
3002540401	ConocoPhillips	Buck 17 Federal 2H	O-17	12845	O	Jennings; UBSS	3894
3002540281	ConocoPhillips	Buck 17 Federal 1H	P-17	13715	O	Jennings; UBSS	3942
3002540840	ConocoPhillips	Buck 17 Federal 5H	A-20	14446	O	Jennings; UBSS	5287

- VII. 1. Average injection rate will be $\approx 12,000$ bwpd.
Maximum injection rate will be 14,000 bwpd.
2. System will be open and closed. Water will be trucked and piped.
3. Average injection pressure will be ≈ 900 psi
Maximum injection pressure will be 971 psi ($= 0.2$ psi/foot $\times 4855'$ (top of open hole)).
4. There have been no reports of problems disposing into the six closest active Delaware; SWD wells in New Mexico. At least 13,394,565 barrels have been disposed into the 6 active SWD; Delaware wells (30-015-05891, 30-015-29345, 30-015-39736, 30-025-27358, 30-025-35598, and 30-025-41067) in T. 25 & 26 S. and R. 31-33 E. At least 7,161,716 barrels have been disposed in 4 active Bell Canyon; SWD or Cherry Canyon; SWD wells (30-025-30660, 30-025-40162, 30-025-40482, and 30-025-41208) in T. 26 S., R. 32 E.

ConocoPhillips Company
Red Hills West 16 State SWD 1
1226' FNL & 893' FWL Sec. 16, T. 26 S., R. 32 E.
Lea County, New Mexico

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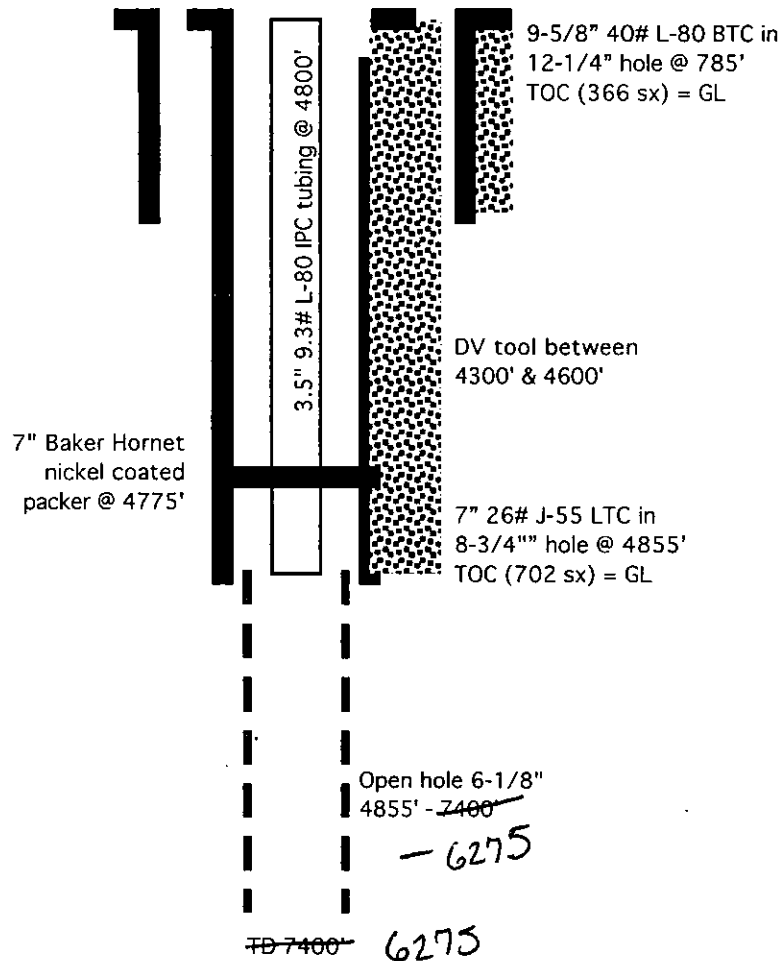
Water source will be produced water from ConocoPhillips' Avalon, Bone Spring, and Wolfcamp wells. A summary follows. Details are in Exhibit H.

Well	Red Hills West 1H	Papagayo Federal 1	Lisa Federal 1	Curry State 2	Russell Federal 17	Thistle Unit 5
API #	30-025-39902	30-025-32543	30-025-27813	30-025-28647	not further identified	30-025-34580
Location	P-8-26s-32e	M-27-23s-34e	N-10-23s-34e	C-22-23s-34e	S2-17-26s-32e	F-34-23s-33e
Zone	Avalon	Bell Canyon	Bone Spring	Cherry Canyon	Delaware	Wolfcamp
Parameter mg/l						
barium (Ba)	0.9			0	1.7	0
bicarbonate (HCO ₃)	2416	208.6	67	132	85	704
calcium (Ca)	2490	31262.4	29200	27755	2347	10500
carbon dioxide (CO ₂)	270	576			150	
chloride (Cl)	104000	212553	193830	171961	145300	78366
hydrogen sulfide (H ₂ S)	0	6	0	0	0	0
iron (Fe)	110	34	62.4	26	6.87	212.5
magnesium (Mg)	730	5080.8	3524	3829	3546	14500
nitrate (NO ₃)						187
manganese (Mn)	1.08				28	
pH	6.7	5.8	5.84	5.92	5	6.7
potassium (K)	1438				1323	43.8
sodium (Na)	61500	92544.7	85635	72597	64150	
strontium (Sr)	205				900	
sulfate (SO ₄)	1750	200	296	250	500	1350
TDS	174641	341883	312552	276524	218188	105950

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPHILLIPSCOMPANYWELL NAME & NUMBER: RED HILLS WEST 16 STATE SWD 1

WELL LOCATION: <u>1226 FNL & 893 FWL</u>	<u>D</u>	<u>16</u>	<u>26 S</u>	<u>32 E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

(not to scale)

WELL CONSTRUCTION DATASurface Casing

Hole Size: 12-1/4" Casing Size: 9-5/8"

Cemented with: 366 sx. *or* 555 ft³

Top of Cement: SURFACE Method Determined: CIRCULATE

Intermediate Casing

Hole Size: 8-3/4" Casing Size: 7"

Cemented with: 702 sx. *or* 1,573 ft³

Top of Cement: SURFACE Method Determined: CIRCULATE

Production Casing (none - open hole)

Hole Size: 6-1/8" Casing Size: N/A

Cemented with: _____ sx. *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Total Depth: 7,400'

Injection Interval4,855' feet to 7,400'*Newbourne
agreement*

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 3-1/2" Lining Material: IPCType of Packer: BAKER HORNET AS1X NICKEL COATEDPacker Setting Depth: 4,775'

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

Additional Data

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

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

2. Name of the Injection Formation: DELAWARE

3. Name of Field or Pool (if applicable): SWD; DELAWARE (96100)

4. 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. _____

NO (no spud yet)

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

OVER: RAMSEY (4446') & OLDS (4530') SANDS OF MASON; DELAWARE, EAST (44820)UNDER: JENNINGS; UPPER BONE SPRING SHALE (8250')

5. See Exhibit H for analyses of Bell Canyon, Cherry Canyon, and Delaware water.

VIII. The Delaware ($\geq 3,783'$ thick in this well) is composed of numerous non-productive sandstones with good porosity and permeability and is inter-bedded with numerous thin shale zones and tight carbonates stringers that are all very continuous across in the area. There is a 3,702' interval of salt and anhydrites above the top of the Delaware.

Closest possible underground source of drinking water above the proposed disposal interval is the Quaternary at the surface. There are 3 existing water wells within a 2-mile (3220 meter) radius according to State records (Exhibit I). No additional water wells were found during a field inspection on July 30, 2014. Closest of the trio is 7,560' southeast. Deepest of the trio is 405' deep. Depth to water ranges from 125' to 405'. A deeper (850') well has been approved, but not yet drilled. No underground source of drinking water is below the proposed disposal interval.

Formation tops are:

Quaternary = 0'
Rustler Anhydrite = 715'
Salado Salt & Anhydrite = 1,072'
Castile Anhydrite = 2,645'
Delaware Mountain Group (Bell Canyon) = 4,417'
Ramsey = 4,446'
Ford Shale = 4,524'
Olds Sand = 4,530'
Cherry Canyon = 5,389'
Brushy Canyon = 6,907'
TD = 7,400'
(Bone Spring = 8,250')

revised interval
4855
6275
Maulbome / Oct 29th

There will be $\geq 3,702'$ of vertical separation and salt and anhydrite intervals between the bottom of the only likely underground water source (Quaternary) and

the top of the Delaware. The Ogallala is not present (Exhibit I). It is more than 40 miles northeast.

A minimum of 7,428,379 barrels of produced water has been disposed into the Delaware, Bell Canyon, or Cherry Canyon at 6 saltwater disposal wells (30-025-27358, 30-025-30660, 30-025-40482, 30-025-40162, 30-025-41208, 30-025-41325) in T. 26 S., R. 32 E.

IX. The well will be stimulated with 7-1/2% to 15% HCl to clean out scale or fill.

X. DSN/SDL, DLL/MGRD, and CBL logs will be run and filed with NMOCD.

XI. Based on a July 30, 2014 field inspection and a review of the State Engineer's records (Exhibit I), no water wells are within a mile radius.

XII. ConocoPhillips is not aware of any geologic or engineering data that may indicate the Delaware is in hydrologic connection with any underground sources of water. There are 282 active Delaware (188), Cherry Canyon (48), Brushy Canyon (6), or Bell Canyon (40) saltwater disposal wells in New Mexico. Closest fault (Guadalupe) is more than 70 miles west (Exhibit J).

XIII. A legal ad (see Exhibit K) was published on June 11, 2014.

Notice (this application) has been sent (Exhibit L) to the surface owner (NM State Land Office), lessors (BLM & NMSLO), and all lessees (Devon, EOG, Mewbourne) or leasehold operators (Forrest, Mewbourne, Sahara, Tempo) or other affected persons (Acme & Peak 9, Childress, Grauten, Guyton, Herrell, HPC, McCombs, Pioneer, Quay, Rees & Shelton, and Smith) within a half-mile.

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025- ¹ API Number	96100	SWD; Delaware
⁴ Property Code	⁵ Property Name RED HILLS WEST 16 STATE SWD	⁶ Well Number 1
217817	⁸ Operator Name ConocoPhillips Company	⁹ Elevation 3185.2'

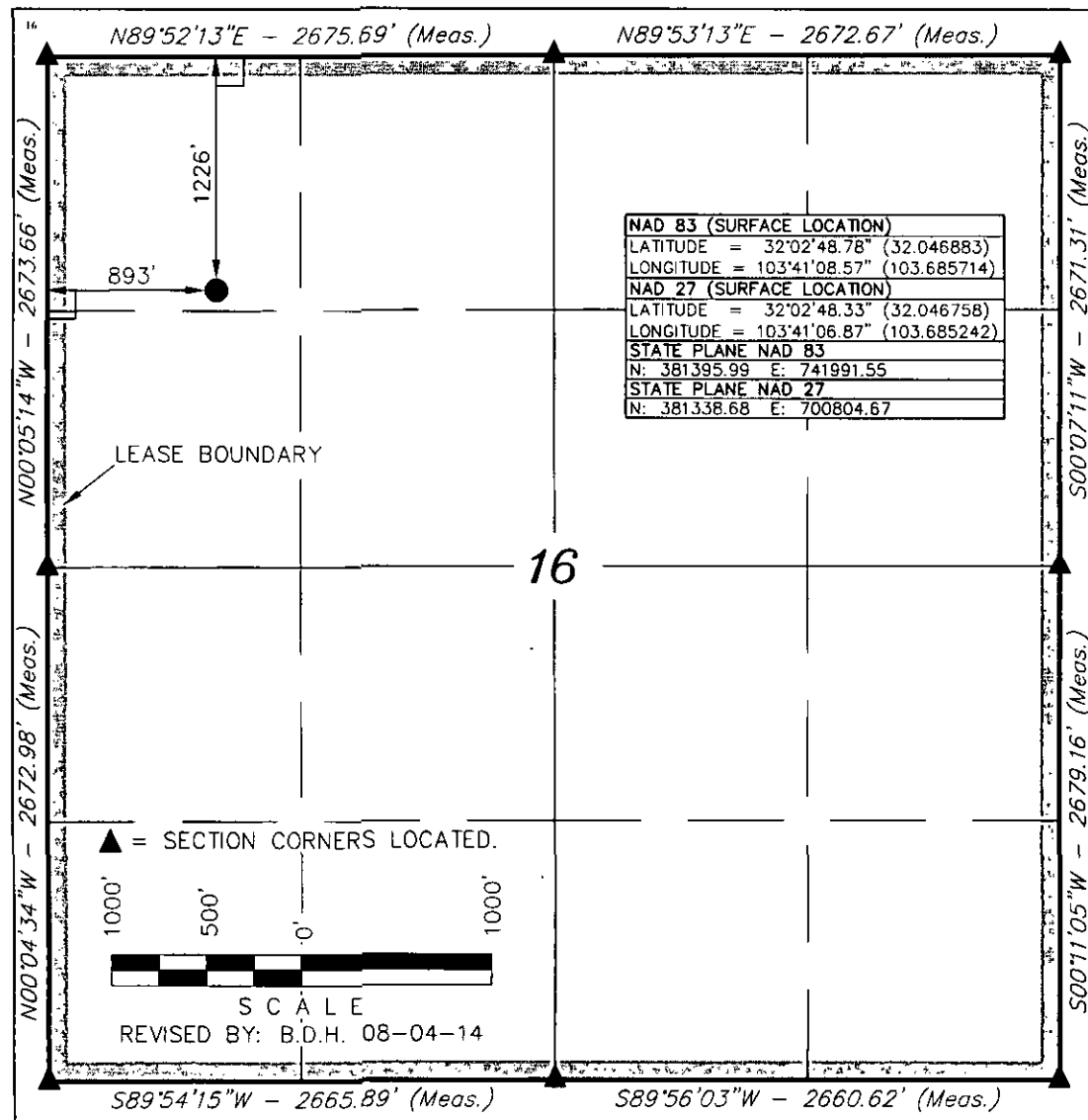
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	26 S	32 E		1226	NORTH	893	WEST	LEA

¹¹ 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
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.



¹⁷ OPERATOR
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

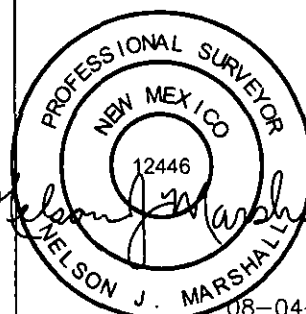
E-mail Address _____

¹⁸ SURVEYOR
CERTIFICATION

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.

October 30, 2013

Date of Survey _____
Signature and Seal of Professional Surveyor:



Certificate Number: _____

EXHIBIT A

Red Hills West 16 State SWD 1
1226' FNL & 893'FWL
Section 16, T. 26 S., R. 32E.
Lea County, NM

Geologic Summary:

The proposed SWD well is designed for disposal into the Delaware Mountain Group. Attached is a cross-section which tracks from west to east showing the major geologic formations of the Delaware Mountain Group (Bell Canyon, Cherry Canyon and Brushy Canyon Formations). This geologic evaluation includes all of the Delaware Mountain Group in T. 26 S., R. 32 E. It is comprised of numerous non-productive sandstones with good porosity and permeability and is inter-bedded with numerous thin shale zones and tight carbonates stringers that are all very continuous across in the area.

The sand members of the Bell Canyon, known as the Ramsey and Olds sandstone, are identified on the attached cross-section. They are the only zones within the Delaware Mountain Group that have been found productive in this township. The Ramsey and Olds are located within the top 200' of the Bell Canyon at a measured depth (MD) from 4468' to 4574' as shown in Mewbourne's Red Hills West 8 Federal 1H. This well is located in Section 8, T. 26 S., R. 32E., 2021' northwest of the proposed SWD well.

Two low rate producers from the upper Bell Canyon (Ohio State 1 (30-025-27525) and Ohio State 2 (30-025-27526)) are 693' northwest and 784' southwest respectively from the proposed SWD well. A slight gas show with slight cut and fluorescence was noted in Mewbourne's Red Hills West 8 Federal 1H mud log when the Ramsey and Olds Formations were penetrated. However, water saturation calculations from well logs across this interval in the Red Hills West 8 Federal 1H indicate that all intervals within the Delaware Mountain Group (including the Ramsey and Olds sandstones) are wet and non-productive.

most producers are saturated

The top of the interval identified for water disposal in the Red Hills West 16 State SWD 1 occurs from \approx 4855' (270' below the base of the Olds Formation) to \approx 7400' (the lower portion of the Brushy Canyon). This interval is identified in the Red Hills West 8 Federal 1H and is noted on the cross section. With the disposal interval being at least 270' vertically below the base of the only potentially productive interval in the township, and with the existence of 4 continuous shale stringers within this 270' interval, the proposed disposal interval should have no potential for oil or gas production at the proposed location. It will be a good interval for saltwater disposal.

There are no fresh water wells within one mile of the subject proposed SWD well.

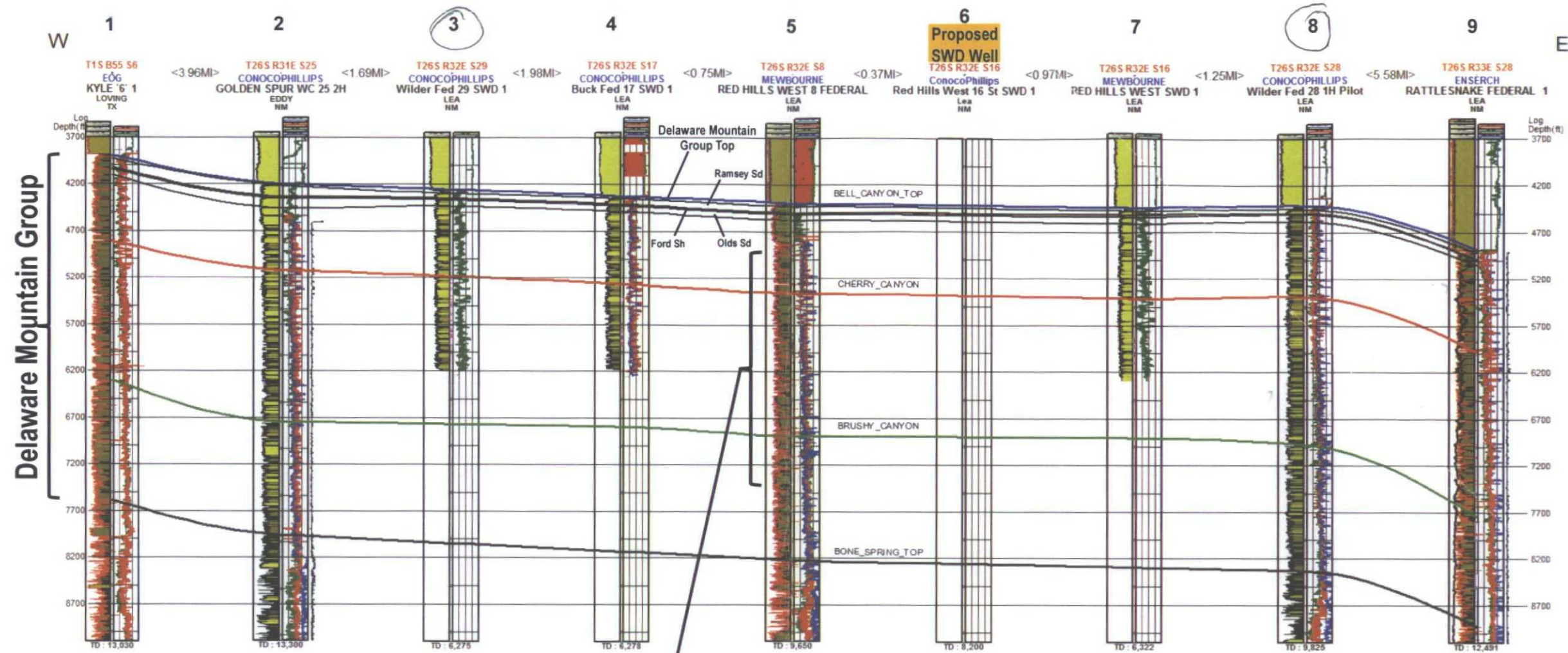
Harvey O. Vick III
Geologist, ConocoPhillips

Office: (281) 206-5486

Mobile: (832) 330-0392

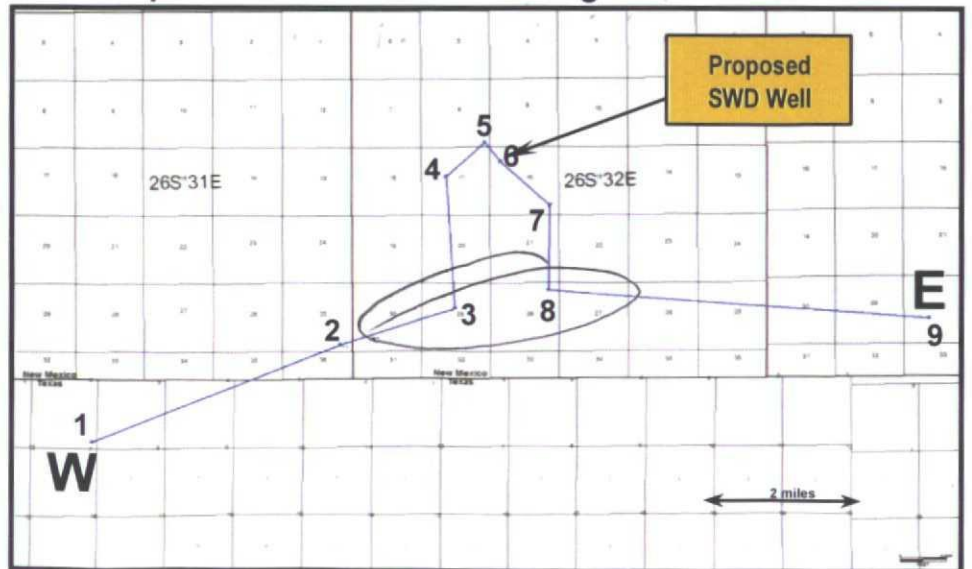
EXHIBIT B

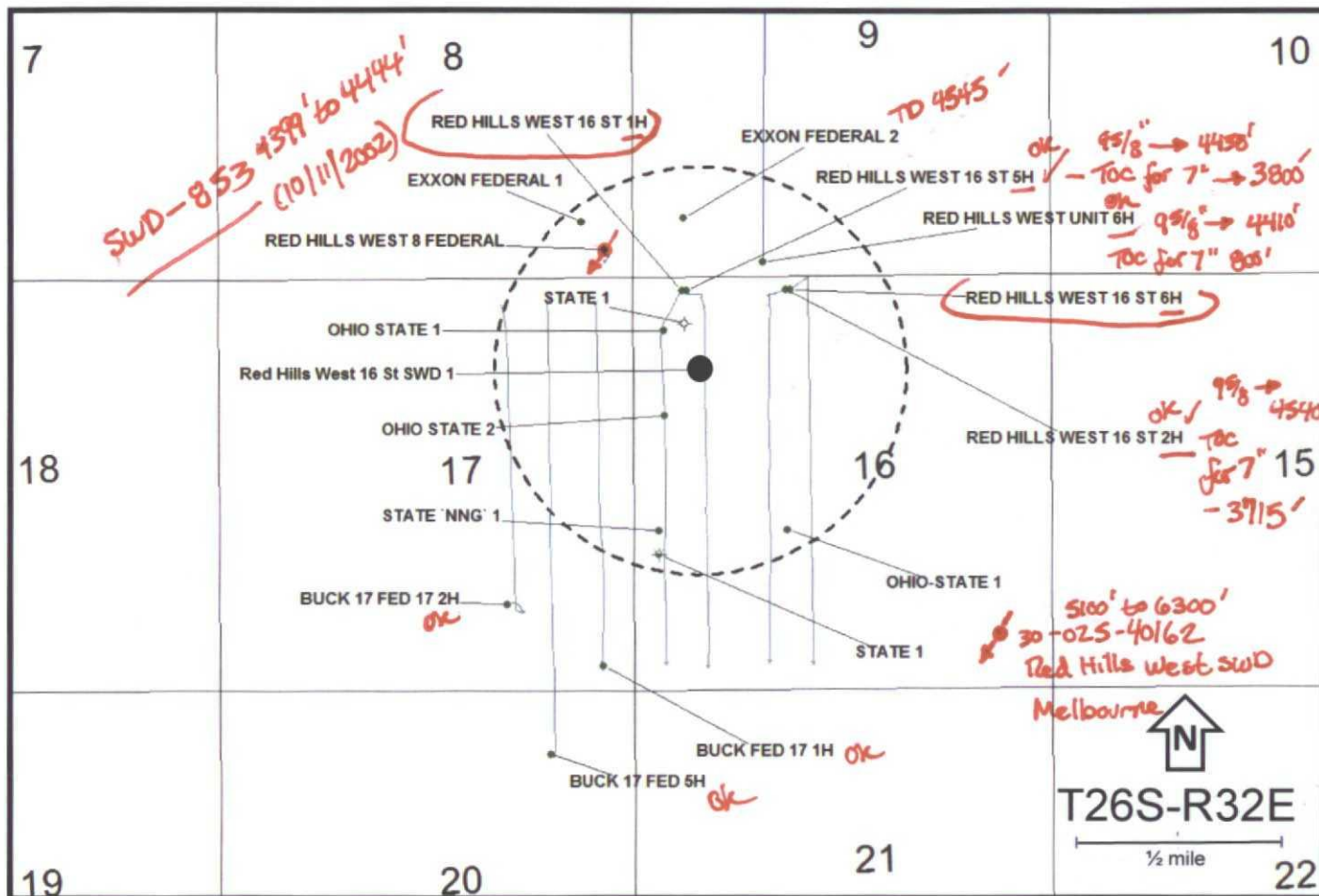
West to East Cross Section Through Delaware Mountain Group in Red Hills West Field



The proposed injection interval will be an equivalent depth in the proposed ConocoPhillips, Red Hills West 16 State SWD 1 to the interval 4,855' to 7,400' MD in the Mewbourne, Red Hills West 8 Federal 1H.

Index Map of Red Hills West Showing Trace of Cross Section





ConocoPhillips

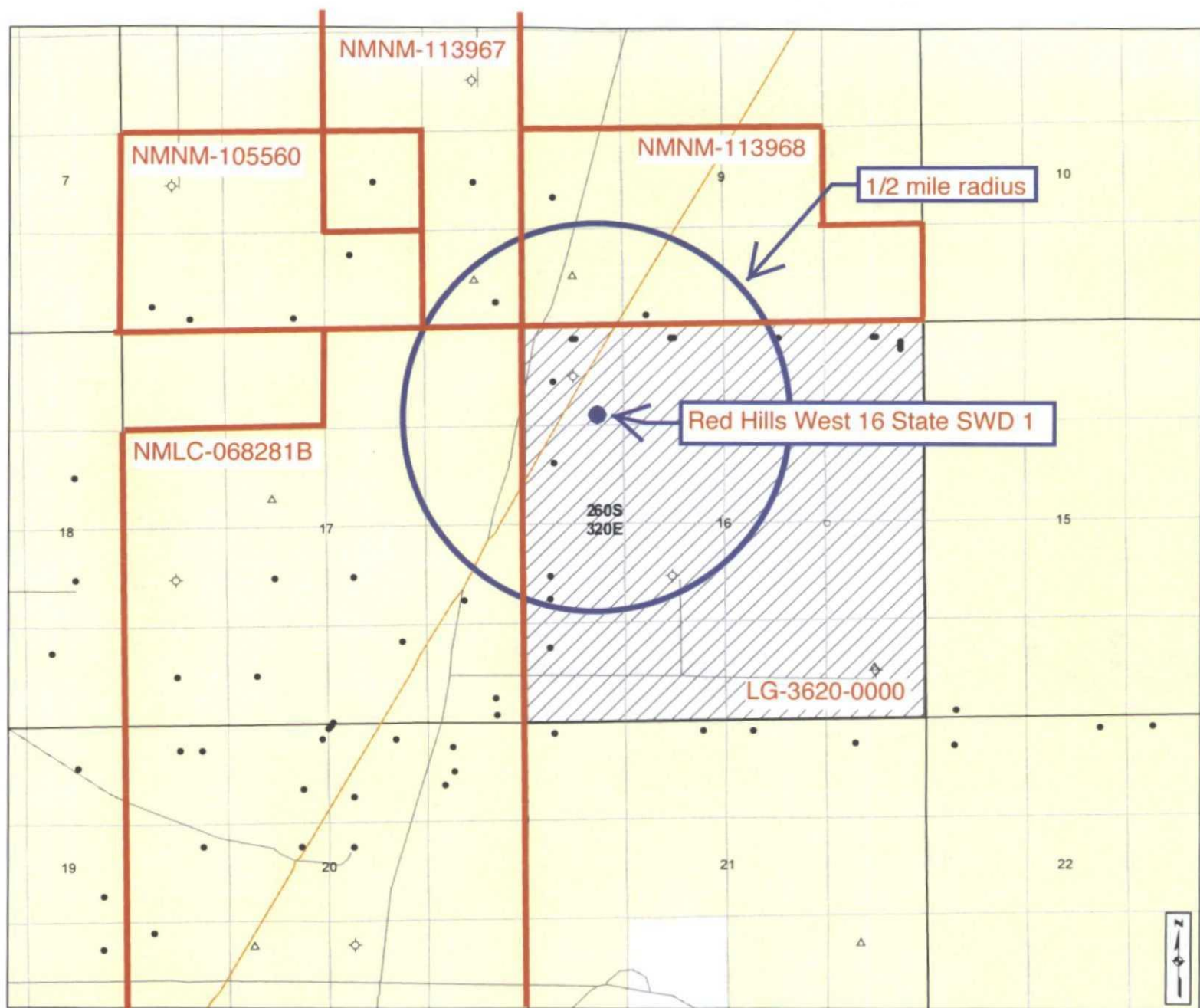
Red Hills West 16 State SWD 1
Lea County, New Mexico
1/2 Mile Radius Map

Legend

- Oil well
- Red Hills West 16 State SWD 1, proposed injector
- Well with show
- Dry hole

By: Harvey Vick – Staff Geologist
March 20, 2014

EXHIBIT C



New Mexico State Land Office Oil, Gas and Minerals

0 0.05 0.1 0.2 0.3 0.4
Miles

Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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

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EXHIBIT E

Cartographic Features

- County Boundaries
- County Seats
- City, Town or Village
- SLO District Offices
- SLO District Boundary
- Hwy Mileposts
- Interstate
- US Hwy
- NM Hwy
- Local Road
- Continental Divide

Federal Minerals Ownership

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

State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

State Leases

- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

Oil and Gas Related Features

- Oil and Gas Unit Boundary
- Participating Areas in Units
- Geologic Regions
- Volcanic Vents
- NMOC Order R-111-P
- Potash Enclave Outline

NMOC Oil and Gas Wells

- CO₂
- Injection
- Oil
- Water
- Gas
- Miscellaneous
- Salt Water Disposal
- DA or PA



www.nmstatelands.org



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

0 0.15 0.3 0.6 0.9 1.2
Miles
Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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Land Office Geographic Information Center
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EXHIBIT F

Cartographic Features

- County Boundaries
- County Seats
- City, Town or Village
- SLO District Offices
- SLO District Boundary
- Hwy Mileposts
- Interstate
- NM Hwy
- Continental Divide
- US Hwy
- Local Road

Federal Minerals Ownership

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

State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

State Leases

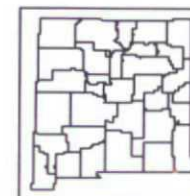
- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

Oil and Gas Related Features

- Oil and Gas Unit Boundary
- Participating Areas in Units
- Geologic Regions
- Volcanic Vents
- NMOC D Order R-111-P
- Potash Enclave Outline

NMOC D Oil and Gas Wells

- CO₂
- Injection
- Oil
- Water
- Gas
- Miscellaneous
- Salt Water Disposal
- DA or PA



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Sorted by disance (SHL to SHL) from Red Hills West 16 State SWD 1

WELL	SPUD	MD	POOL	WELL TYPE	HOLE O. D.	CASING O. D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
Ohio State 1	9/20/61	4588	Mason; Del., E	P & A	11	8.625	319	150 sx	GL	circulated
30-025-08258					7.875	4.5	4588	200 sx		
K-16-26s-32e										
Exxon Forrest Federal 1	6/18/81	4444	SWD; Delaware	SWD	12.25	8.625	582	400 sx	GL	circulated
30-025-27358					7.875	5.5	4399	50 sx	3960	CBL
P-8-26s-32e										
State NNG 1	7/25/75	4469	Mason; Del., E	P & A	12.25	8.625	625	400 sx	GL	circulated
30-025-25064					7.875	4.5	4488	200 sx	3400	
L-16-26s-32e										
Red Hills West 16 State 3H	no spud yet	12877	Jennings; Upper Bone Spring shale	oil planned	17.5	13.375	800	720 sx	GL	no spud yet
30-025-40412					12.25	9.625	4535	1530 sx	GL	
B-16-26s-32e					8.75	5.5	9412	481 sx	4035	
					6.125	4.5	13559	none	N/A	
SHL > 2640' distant, but horiozntal well bore within 2640'										
Buck 17 Federal 2H	12/6/12	12845	Jennings; Upper Bone Spring shale	oil	17.5	13.375	994	805 sx	GL	circulated
3002540401					12.25	9.625	4333	1130 sx	GL	circulated
O-17-26s-32e					8.75	5.5	12747	1985 sx	1500	CBL

TS
casing pulled too shallow

TS

TS

Not spud

Sorted by disance (SHL to SHL) from Red Hills West 16 State SWD 1

WELL	SPUD	MD	POOL	WELL TYPE	HOLE O. D.	CASING O. D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
Red Hills West 16 State 6H	1/10/13	14012	Jennings; Upper Bone Spring shale	oil	17.5	13.375	905	1040 sx	GL	circulated
30-025-40415					12.25	9.625	4553	1460 sx	GL	circulated
C-16-26s-32e					8.75	7	13985	540 sx	5885	CBL
Red Hills West Unit 6H	12/13/13	13980	Jennings; Upper Bone Spring shale	oil	17.5	13.375	1060	800 sx	GL	circulated
30-025-40605					12.25	9.625	4410	1300 sx	GL	circulated
N-9-26s-32e					8.75	5.5	13940	1900 sx	800	method?
Exxon Federal 2	7/8/83	4545	SWD; Delaware	P & A	12.25	8.625	1389	450	GL	circulated
30-025-28259					7.875	5.5	4545	150 sx	3800	calculated
M-9-26s-32e										
Red Hills West Unit 1H	9/30/10	13513	Jennings; Upper Bone Spring shale	oil	17.5	13.375	1104	850 sx	GL	circulated
30-025-39902					12.25	9.625	4802	2000 sx	GL	circulated
P-8-26s-32e					8.75	7	9343	1300 sx	4325	method?
					6.125	4.5	13486	none	N/A	
State NNG 1	6/28/83	4469	Mason; Del. E	oil	12.25	8.625	1423	450 sx	GL	circulated
30-025-28245					7.875	5.5	4469	150 sx		
L-16-26s-32e										

Remedial cont
4553 due to 5885

TS

supported to circ. to surface
TS

Sorted by disance (SHL to SHL) from Red Hills West 16 State SWD 1

WELL	SPUD	MD	POOL	WELL TYPE	HOLE O. D.	CASING O. D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
State 1 ✓	12/23/62	4534	Mason; Del., E	P & A	11	7.625	329	95 sx	GL	circulated
30-025-20572					6.75	not run				
D-16-26s-32e										
Ohio State 1 ✓	10/31/81	4449	Mason; Del., E	oil	10.625	8.625	540	350 sx	GL	circulated
30-025-27525					7.875	5.5	4425	300 sx	2400	calculated
D-16-26s-32e										
Ohio State 2 ✓	3/7/82	4508	Mason; Del., E	oil	12.25	8.625	543	300 sx	GL	circulated
30-025-27526					7.875	5.5	4505	600 sx	GL	circulated
E-16-26s-32e										
Red Hills West 16 State 5H	9/18/12	13616	Jennings; Upper Bone Spring shale	oil	17.5	13.375	795	720 sx	GL	circulated
30-025-40414					12.25	9.625	4438	1445 sx	GL	circulated
D-16-26s-32e					8.75	7	13606	495 sx	3800	CBL
Red Hills West 16 State 1H	8/24/12	13434	Jennings; Upper Bone Spring shale	oil	17.5	13.375	793	720 sx	GL	circulated
30-025-40410					12.25	9.625	4479	1445 sx	GL	circulated
D-16-26s-32e					8.75	7	13419	495 sx	5887	CBL
Red Hills West 16 State 2H	12/16/12	13400	Jennings; Upper Bone Spring shale	oil	17.5	13.375	903	820 sx	GL	circulated
30-025-40411					12	9.625	4540	1780 sx	GL	circulated
C-16-26s-32e					8.75	7	13385	489 sx	3715	CBL

TS

TS

TS

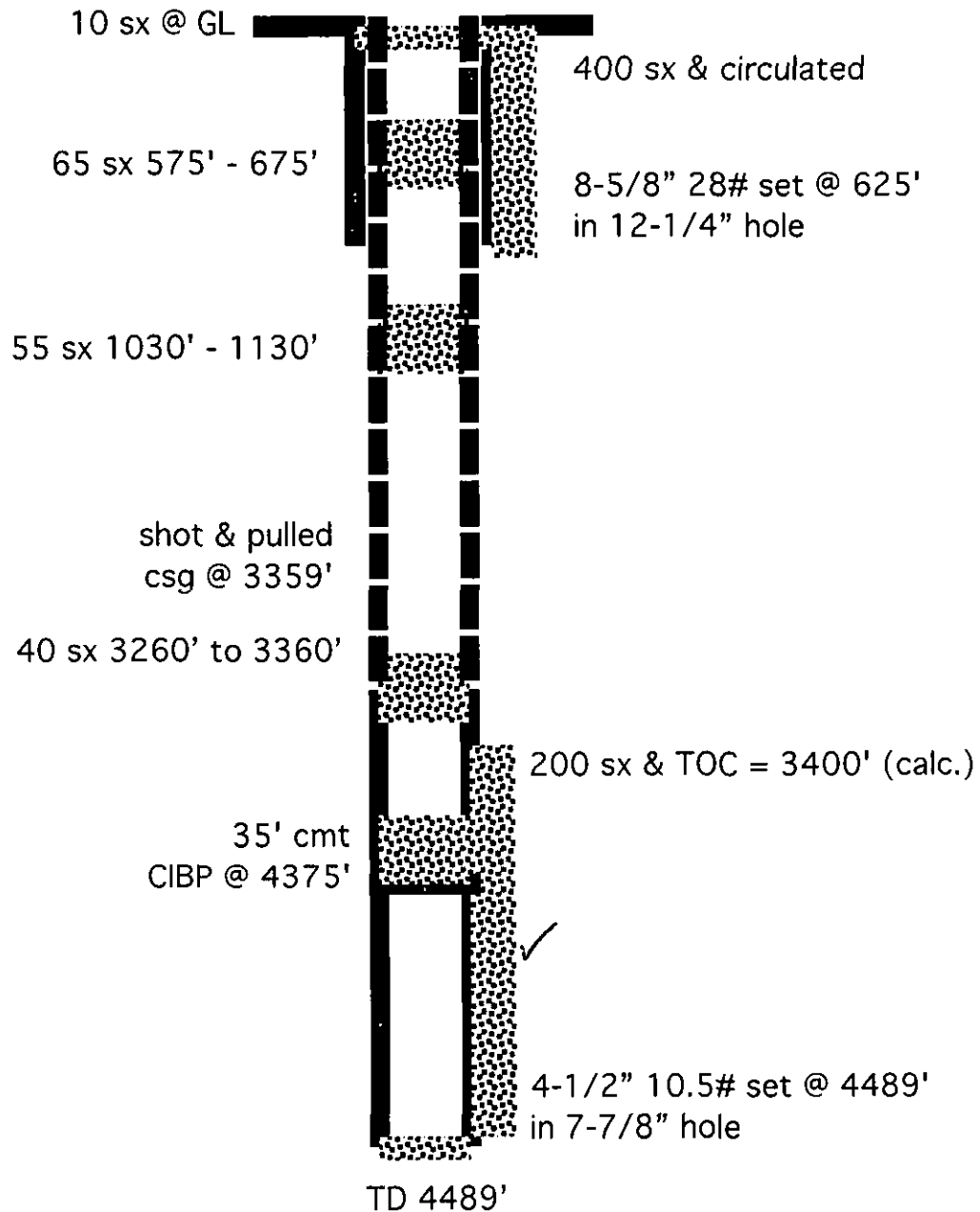
Remedial
Cmt
Shoe/tie
to 5887

Sorted by distance (SHL to SHL) from Red Hills West 16 State SWD 1

WELL	SPUD	MD	POOL	WELL TYPE	HOLE O. D.	CASING O. D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
Buck 17 Federal 1H	11/8/11	13715	Jennings; Upper Bone Spring shale	oil	17.5	13.375	952	1345 sx	GL	circulated
3002540281					12.25	9.625	4123	1130 sx	GL	circulated
P-17-26s-32e					8.75	5.5	9673	745 sx	3550	CBL
					6.125	4.5	13666	none		
Buck 17 Federal 5H	11/12/12	14446	Jennings; Upper Bone Spring shale	oil	17.5	13.375	1030	900 sx	GL	circulated
3002540840					12.25	9.625	4448	1405 sx	GL	circulated
A-20-26s-32e					8.75	5.5	9205	482 sx	3900	calculated
					6.125	4.5	14286	none	N/A	

Penetrating wells - Bone Spring - 9 wells/all horizontals/active
Upper Delaware play - injection below

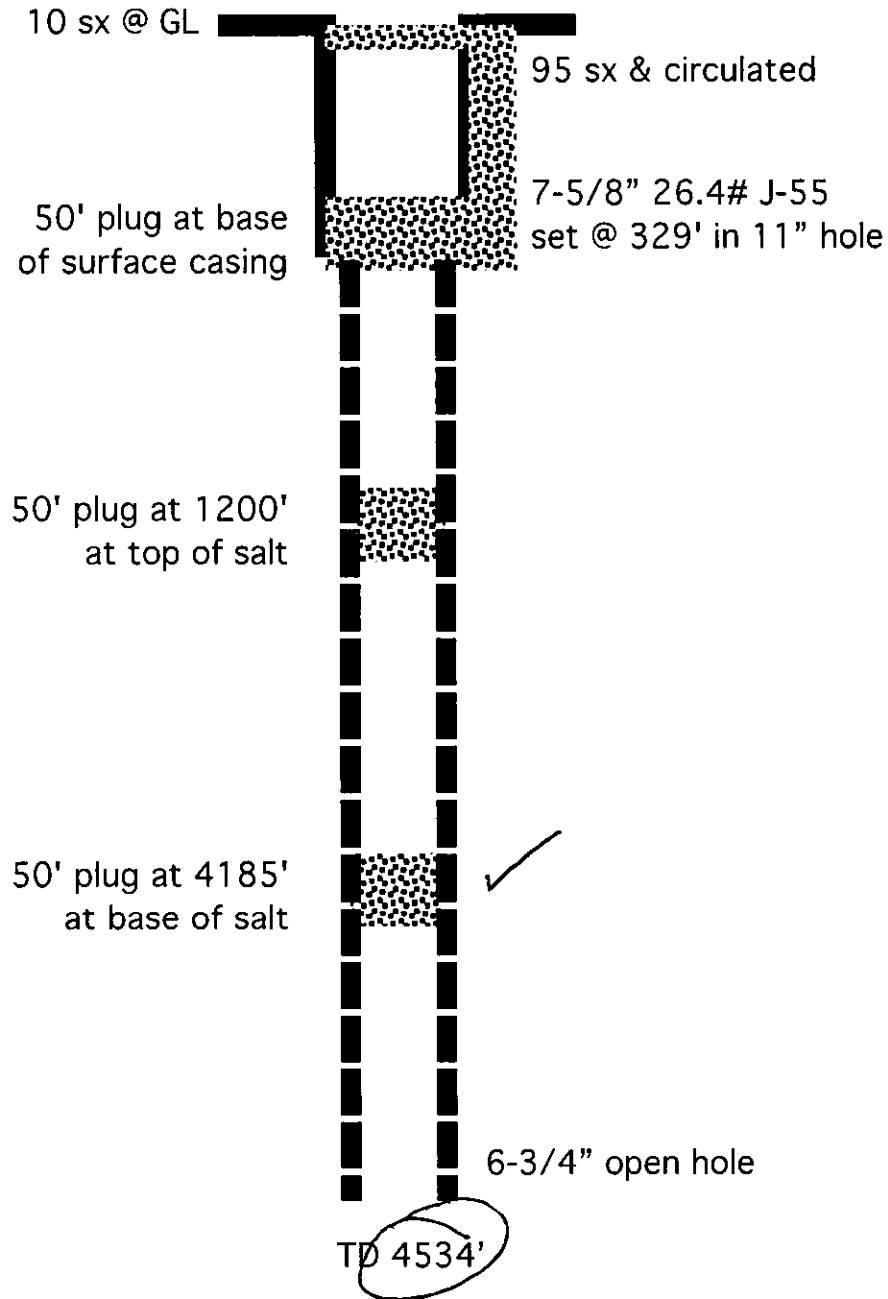
Grauten's
State 1, aka, State NNG 1
API 30-025-25064
1666 FSL & 330 FWL 16-26s-32e
Spud: 7-25-75
P & A: 9-3-75



(not to scale)

EXHIBIT G

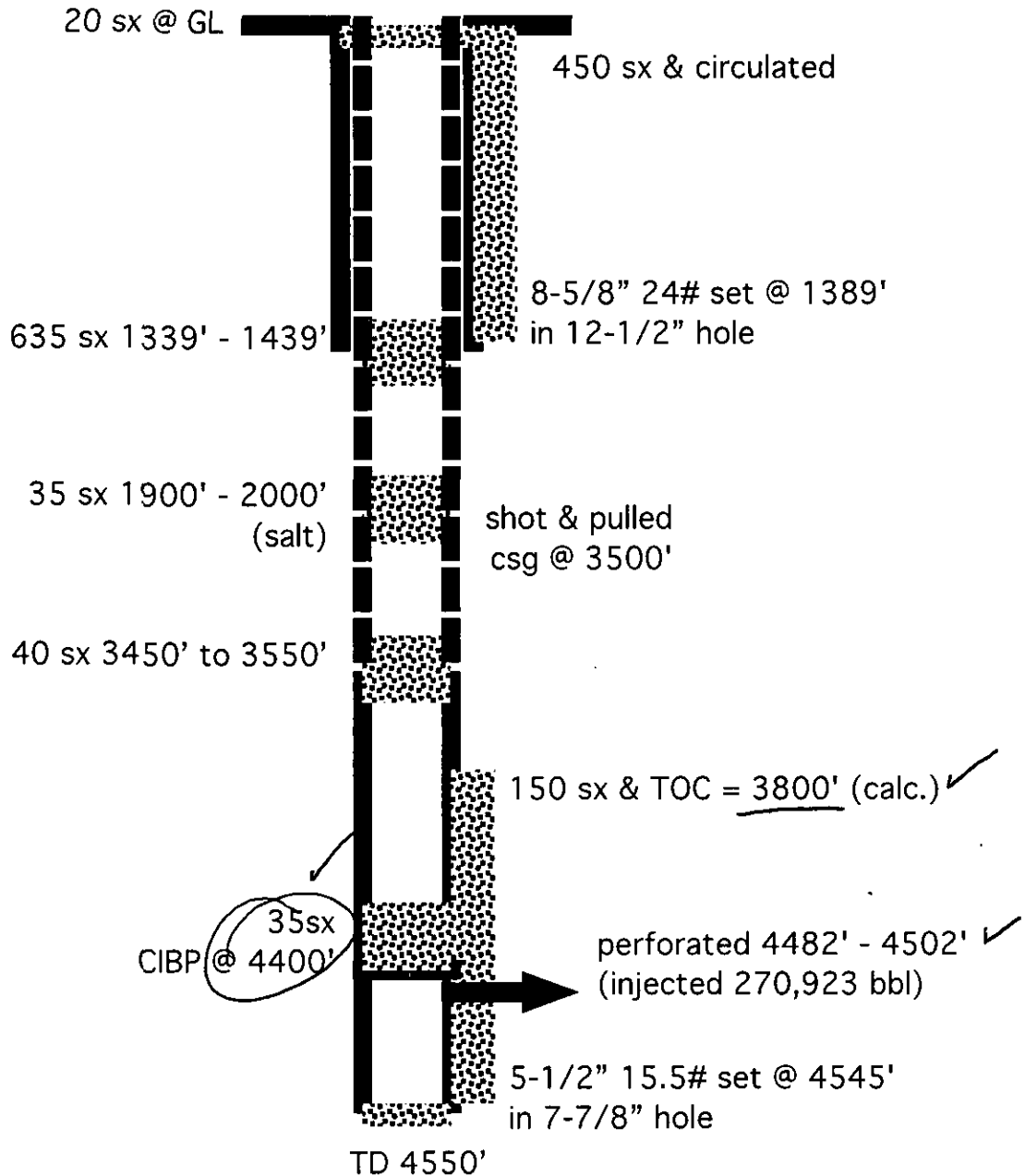
Holt & Hissom's
State 1
API 30-025-20572
660 FSL & 660 FWL 16-26s-32e
Spud: 12-23-62
P & A: 1-8-63



(not to scale)

EXHIBIT G

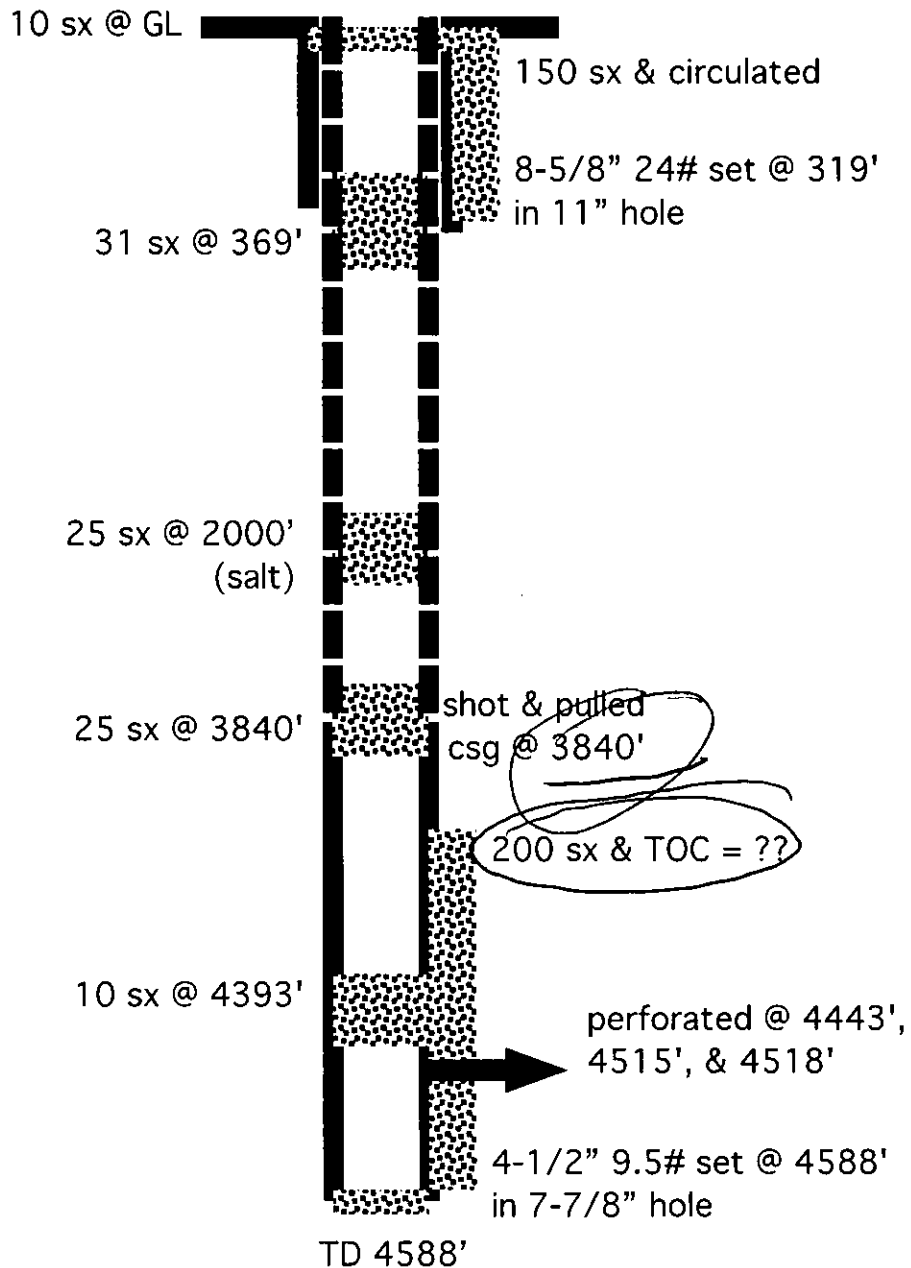
Tempo's
Exxon Federal 2
API 30-025-28259
705 FSL & 600 FWL 9-26s-32e
Spud: 7-8-83
P & A: 4-13-09



(not to scale)

EXHIBIT G

Enfield's
Ohio State 1
API 30-025-08258
1980 FSL & 1980 FWL 16-26s-32e
Spud: 9-20-61
P & A: 11-6-64



(not to scale)

EXHIBIT G

Avalon water
from 30-025-39902

Analytical Laboratory Report for:
**MEWBOURNE OIL
COMPANY**

Account Representative:
Mossman, Willis



Production Water Analysis

Listed below please find water analysis report from: Red Hills 8 Federal, 1H

Lab Test Number	Sample Date	
2011111303	05/03/2011	
[]		
Specific Gravity:	1.114	
TDS:	174641	
pH:	6.70	
Cations:	mg/L	as:
Calcium	2490	(Ca ⁺⁺)
Magnesium	730	(Mg ⁺⁺)
Sodium	61500	(Na ⁺)
Iron	110.00	(Fe ⁺⁺)
Potassium	1438.0	(K ⁺)
Barium	0.90	(Ba ⁺⁺)
Strontium	205.00	(Sr ⁺⁺)
Manganese	1.08	(Mn ⁺⁺)
Anions:	mg/L	as:
Bicarbonate	2416	(HCO ₃ ⁻)
Sulfate	1750	(SO ₄ ⁻)
Chloride	104000	(Cl ⁻)
Gases:		
Carbon Dioxide	270	(CO ₂)
Hydrogen Sulfide	0.0	(H ₂ S)

EXHIBIT H



P. O. BOX 668
HOBBS, NEW MEXICO 88240
(505) 393-1917

Bell Canyon water
from 30-025-24916
& SWD-578

WATER ANALYSIS REPORT

Company: Strata Production Date: 11-22-94
Lease: Papa Gyo ← aka, Papagayo Date Sampled: 11-15-94
Well: Fed. #1 Analysis No: E112
Sample Point: Wellhead

ANALYSIS		mg/L	meq/L
1.	pH	5.8	
2.	Specific Gravity	1.220	
DISSOLVED GASSES			
3.	H ₂ S	6.0 PPM	
4.	Dissolved Oxygen	N/A	
5.	Dissolved CO ₂	576.0 PPM	
CATIONS			
6.	Calcium	Ca 31262.4	1560.0
7.	Magnesium (calculated)	Mg 5080.8	418.0
8.	Sodium (calculated)	Na 92544.7	4025.4
ANIONS			
9.	Methyl Orange Alkalinity	CaCO ₃ 171.0	
10.	Bicarbonate	HCO ₃ 208.6	3.4
11.	Chloride	Cl 212552.9	5995.8
12.	Sulfate	SO ₄ 200.0	4.2
13.	Total Dissolved Solids	341883.4	
14.	Total Hardness	CaCO ₃ 98989.0	
15.	Total Iron	Fe 34.0	

PROBABLE MINERAL COMPOSITION

Compound	Equiv wt	X	meq/L	=	mg/L
Ca(HCO ₃) ₂	81.0		3.4	=	277
CaSO ₄	68.1		4.2	=	283
CaCl ₂	55.5	1552.4		=	86144
MgCl ₂	47.6	418.0		=	19899
NaCl	58.4	4025.4		=	235246

SCALE TENDENCY REPORT

Calcium Carbonate Scaling Tendency

S.I. = at 80 degrees F S.I. = at 100 degrees F
S.I. = at 120 degrees F S.I. = at 140 degrees F

Calcium Sulfate Scaling Tendency

S. = at 80 degrees F S. = at 100 degrees F
S. = at 120 degrees F S. = at 140 degrees F

Calculation for MPY loss: 24.0 MPY

REMARKS: Don Canada / Copy / File Scaling Tendencies out of calculation range.

EXHIBIT H

Seaco Products Co.

Cherry Canyon water
from 30-025-28647
& SWD-588

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : J. C. WILLIAMSON
Lease : Curry State
Well No. : #1, 2
Salesman :

Sample Loc. :
Date Analyzed: 26-January-1996
Date Sampled :

ANALYSIS

1. pH 5.920
2. Specific Gravity 60/60 F. 1.196
3. CaCO₃ Saturation Index @ 80 F. +2.227
@ 140 F. +3.147

Dissolved Gasses

MG/L EQ. WT. *MEQ/L

4. Hydrogen Sulfide Not Present
5. Carbon Dioxide Not Determined
6. Dissolved Oxygen Not Determined

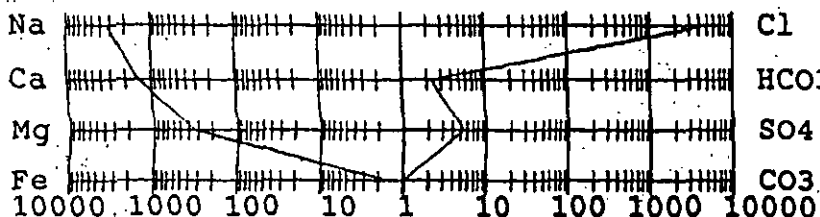
Cations

7. Calcium (Ca⁺⁺) 27,755 / 20.1 = 1,380.85
8. Magnesium (Mg⁺⁺) 3,829 / 12.2 = 313.85
9. Sodium (Na⁺) (Calculated) 72,597 / 23.0 = 3,156.39
10. Barium (Ba⁺⁺) 0 / 68.7 = 0.00

Anions

11. Hydroxyl (OH⁻) 0 / 17.0 = 0.00
12. Carbonate (CO₃²⁻) 0 / 30.0 = 0.00
13. Bicarbonate (HCO₃⁻) 132 / 61.1 = 2.16
14. Sulfate (SO₄²⁻) 250 / 48.8 = 5.12
15. Chloride (Cl⁻) 171,961 / 35.5 = 4,843.97
16. Total Dissolved Solids 276,524
17. Total Iron (Fe) 26 / 18.2 = 1.43
18. Total Hardness As CaCO₃ 85,076
19. Resistivity @ 75 F. (Calculated) 0.001 /cm.

LOGARITHMIC WATER PATTERN *meq/L.



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION COMPOUND EQ. WT. X *meq/L = mg/L.

Cl	Ca(HCO ₃) ₂	81.04	2.16	175
HCO ₃	CaSO ₄	68.07	5.12	349
SO ₄	CaCl ₂	55.50	1,373.56	76,233
CO ₃	Mg(HCO ₃) ₂	73.17	0.00	0
	MgSO ₄	60.19	0.00	0
	MgCl ₂	47.62	313.85	14,946
	NaHCO ₃	84.00	0.00	0
	NaSO ₄	71.03	0.00	0
	NaCl	58.46	3,156.56	184,532

*Milli Equivalents per Liter

This water is somewhat corrosive due to the pH observed on analysis.
The corrosivity is increased by the content of mineral salts in solution.

EXHIBIT H

WATER SAMPLES

Bone Spring water
from 30-025-27813
& SWD-588

TO: Mr. Max Curry
804 Palomino, Midland, TX 79705
COMPANY San Simon SWD
FIELD Antelope Ridge
SEC 10 BLK SURVEY T-23S & R-34E CO. Ica, NM
NO. 1 Produced water - taken from Federal #1. 5-29-97
NO. 2
NO. 3
NO. 4

LAB. NO.
DATE REC 5-29-97
RR

Lisa Federal #1

REMARKS:

Specific Gravity @ 60oF.

pH When Sampled

pH When Received

Bicarbonate, as HC03

Supersaturated, as CaC03

Undersaturated, as CaC03

Total Hardness, as CaC03

Calcium, as Ca

Magnesium, as Mg

Sodium and/or Potassium

Sulfate, as SO4

Chloride, as Cl

Iron, as Fe

Barium, as Ba

Turbidity

Color

Total Solids, Calc.

Temperature, oF.

Carbon Dioxide

Oxygen

Hydrogen Sulfide

Resistivity, ohms/m @ 77oF.

Suspended Oil

Filtrable Solids

Volume Filtered, ml

Bone Springs

1.1964

5.84

67

87500

29200

3524

85635

296

193830

62.4

312552

0.0

0.045

Remarks: In comparing this water with our records in this field, we find it clearly does not resemble what we would expect from a natural Bone Springs. In further comparing with our records, we find it has characteristics that are decidedly similar to what we would expect from the Brushy Canyon or Cherry Canyon interval.

RESULTS REPORTED AS MILLIGRAMS PER LITER
MARTIN WATER LABS., INC.

EXHIBIT H

WATER SAMPLES

Delaware water
from S2 17-26s-32e
API# not in file

Analytical Laboratory Report for:
**MEWBOURNE OIL
COMPANY**

Account Representative:
Mossman, Willis



Production Water Analysis

Listed below please find water analysis report from: ~~XXXXXXXXXX~~; Russell Fed 17

Lab Test Number	Sample Date
2011111305	05/03/2011

[
]

Specific Gravity: 1.142

TDS: 218188

pH: 5.00

Delaware

Cations:	mg/L	as:
Calcium	2347	(Ca ⁺⁺)
Magnesium	3546	(Mg ⁺⁺)
Sodium	64150	(Na ⁺)
Iron	6.87	(Fe ⁺⁺)
Potassium	1323.0	(K ⁺)
Barium	1.70	(Ba ⁺⁺)
Strontium	900.00	(Sr ⁺⁺)
Manganese	28.00	(Mn ⁺⁺)
Anions:	mg/L	as:

Bicarbonate	85	(HCO ₃)
Sulfate	500	(SO ₄)
Chloride	145300	(Cl)

Gases:

Carbon Dioxide	150	(CO ₂)
Hydrogen Sulfide	0.0	(H ₂ S)

EXHIBIT H

Laboratory Services, Inc.

4016 Fiesta Drive
Hobbs, New Mexico 88240
Telephone: (505) 397-3713

Wolfcamp water
from 30-025-34580

Water Analysis

COMPANY Santa Fe Snyder

SAMPLE Thistle #5

SAMPLED BY R. Hicks-Pro Well

DATE TAKEN 2/23/00 7:00 am

REMARKS

Barium as Ba	0
Carbonate alkalinity PPM	0
Bicarbonate alkalinity PPM	704
pH at Lab	6.7
Specific Gravity @ 60°F	1.09
Magnesium as Mg	14,500
Total Hardness as CaCO ₃	25,000
Chlorides as Cl	78,366
Sulfate as SO ₄	1,350
Iron as Fe	212.5
Potassium	43.8
Hydrogen Sulfide	0
D ₄	0.092 @ 34° C
Total Dissolved Solids	105,950
Calcium as Ca	10,500
Nitrate	187

Results reported as Parts per Million unless stated

Langelier Saturation Index 1.58

Analysis by: Vickie Walker
Date: 2/23/00

EXHIBIT H



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)										(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									
WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y	Distance
C 02271		CUB	PDL		3 OLIVER KIEHNE	LE	C 02271	R			2	3	21	26S	32E		624449	3544111'	2305
C 03595		CUB	EXP		0 OLIVER D KIEHNE	LE	C 03595 POD1			Shallow	4	2	3	21	26S	32E	624422	3544045'	2365
C 02271		CUB	PDL		3 OLIVER KIEHNE	LE	C 02271 POD2			Shallow	3	2	3	21	26S	32E	624348	3544010'	2391
C 02323		C	DOL		3 M R MADERA TRUST	LE	C 02323			Shallow	3	2	3	21	26S	32E	624348	3544010'	2391
C 03537		C	EXP		0 GREGORY ROCKHOUSE RANCH, INC.	LE	C 03537 POD1				3	2	3	21	26S	32E	624250	3543985'	2407

Record Count: 5

UTMNAD83 Radius Search (In meters):

Easting (X): 624084

Northing (Y): 3546387

Radius: 3220 = 2miles

Sorted by: Distance

EXHIBIT I

*UTM location was derived from PLSS - see Help

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02271	R		LE	2	3	21	26S	32E		624449	3544111*	2305	150	125	25
C 03595 POD1		CUB	LE	4	2	3	21	26S	32E	624423	3544045	2365	280	180	100
C 02271 POD2		CUB	LE	3	2	3	21	26S	32E	624348	3544010*	2391	270	250	20
C 02323		C	LE	3	2	3	21	26S	32E	624348	3544010*	2391	405	405	0
C 03537 POD1		C	LE	3	2	3	21	26S	32E	624250	3543985	2407	850		

Average Depth to Water: **240 feet**

Minimum Depth: **125 feet**

Maximum Depth: **405 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 624084

Northing (Y): 3546387

Radius: 3220 = 2miles

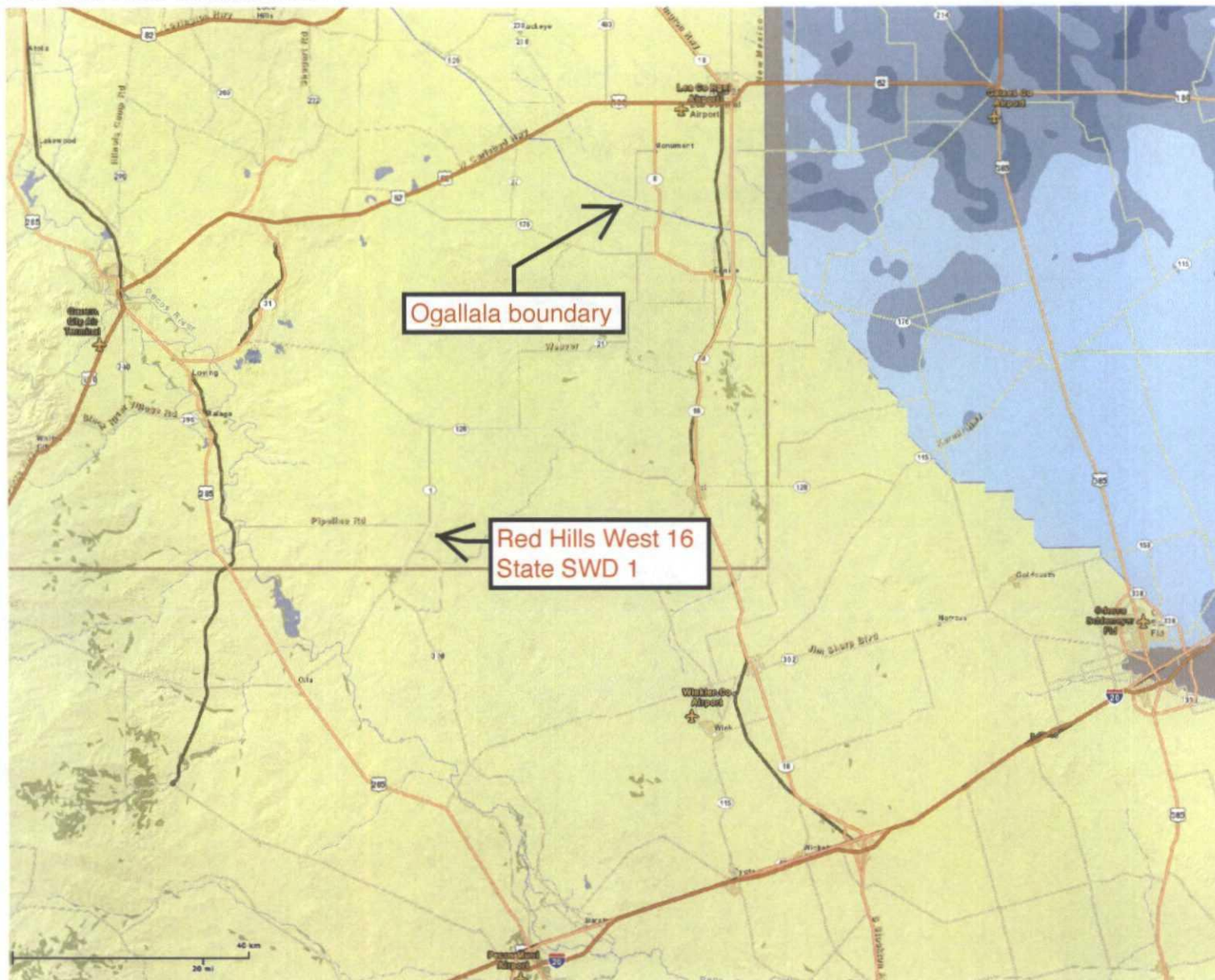
EXHIBIT I

*UTM location was derived from PLSS - see Help

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

Ogallala

Red Hills West 16 State SWD 1



Copyright 2010 Esri. All rights reserved. Fri Sep 19 2014 03:45:09 PM.

EXHIBIT I



Geologic Hazards Science Center

EHP Quaternary Faults

Search for fault:

Select a state or region map:



Red Hills West 16 State SWD 1

EXHIBIT J

Affidavit of Publication

State of New Mexico,
County of Lea.

I, TODD BAILEY
EDITOR

of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).

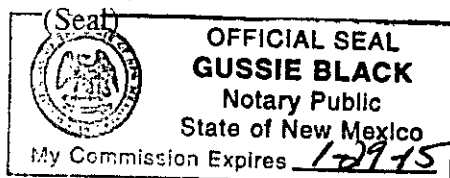
Beginning with the issue dated
June 11, 2014
and ending with the issue dated
June 11, 2014


EDITOR

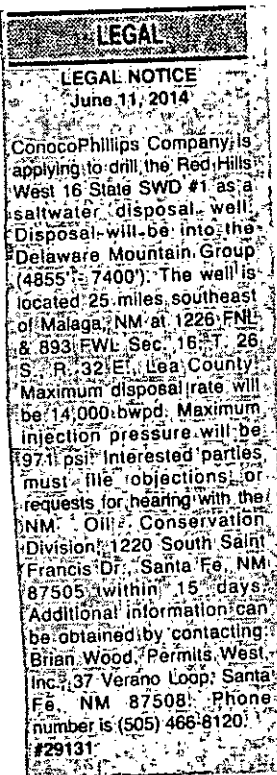
Sworn and subscribed to before me
this 11th day of
June, 2014


Notary Public

My commission expires
January 29, 2015



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



02108485

00138098

BRIAN WOOD
PERMITS WEST
37 VERANO LOOP
SANTA FE, NM 87508

EXHIBIT K

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

September 26, 2014

Nick Jaramillo
NM State Land Office
P. O. Box 1148
Santa Fe NM 87504

Dear Nick,

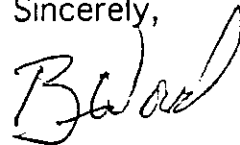
ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Red Hills West 16 State SWD 1 (State lease) ID = 7,400'
Proposed Injection Zone: Delaware (from 4,855' to 7,400')
Location: 1226' FNL & 893' FWL Sec. 16, T. 26 S., R. 32 E., Lea County, NM
Approximate Location: ~25 air miles southeast of Malaga, NM
Applicant Name: ConocoPhillips Company (281) 206-5282
Applicant's Address: 600 N. Dairy Ashford Rd., Houston TX 77079

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

7013 0600 0001 8656 6892

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Total Postage & Fees \$	
Sent To <u>NM SLO</u>	
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	
PS Form 3800, August 2006 See Reverse for Instructions	

EXHIBIT L



September 26, 2014

Acme Land Co. &
Peak 9 Production Co.
P. O. Box 10280
Midland TX 79702

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Applicant's Address: 600 N. Dairy Ashford Rd., Houston TX 77079

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Please call me if you have any questions.

Sincerely,

Brian Wood
Brian Wood

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
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Total Postage & Fees	\$

Sent To: ACME LAND CO.
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: MIDLAND

EXHIBIT L



September 26, 2014

BLM
620 E. Greene
Carlsbad, NM 88220

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Applicant Name: ConocoPhillips Company (281) 206-5282
Applicant's Address: 600 N. Dairy Ashford Rd., Houston TX 77079

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Sarah
od

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 87552

Sent To: BLM
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: CARLSBAD



September 26, 2014

Childress Royalty Co.
P. O. Box 66
Joplin MO 64802

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Approximate Location: ≈25 air miles southeast of Malaga, NM
Applicant Name: ConocoPhillips Company (281) 206-5282
Applicant's Address: 600 N. Dairy Ashford Rd., Houston TX 77079

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

B Wood

Brian Wood

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Total Postage & Fees	\$

PECOS NM 87552

Sent To: *CHILDRESS ROYALTY*
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: *Joplin Mo*

EXHIBIT L



September 26, 2014

Devon Energy Prod. Co. LP
333 W. Sheridan Ave.
Oklahoma City OK 73102

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Applicant's Address: 600 N. Dairy Ashford Rd., Houston TX 77079

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

B Wood

Brian Wood

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Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.61

Postmark Here: SEP 29 2014 87552

Sent To: *DEVON ENERGY*
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: *OK, OK*



September 26, 2014

EOG Resources
P. O. Box 4362
Houston TX 77210

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Applicant's Address: 600 N. Dairy Ashford Rd., Houston TX 77079

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Brian Wood



Postage	\$
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: EOG Resources
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: Houston

EXHIBIT L



September 26, 2014

Robert H. Forrest Jr. Oil LLC
609 Elora Dr.
Carlsbad NM 88220

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Approximate Location: ≈25 air miles southeast of Malaga, NM
Applicant Name: ConocoPhillips Company (281) 206-5282
Applicant's Address: 600 N. Dairy Ashford Rd., Houston TX 77079

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: ROBT. H. FORREST
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: CARLSBAD



September 26, 2014

John S. Grauten
1329 Ridgerun Dr.
Roseville CA 95768

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

Brian Wood

0969 9598 1000 0090 0702

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Restricted Delivery Fee (Endorsement Required)	
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Sent To: <i>JOHN GRAUTEN</i>	
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	

SEP 29 2014
87552

EXHIBIT L



September 26, 2014

Steve Guyton
P. O. Box 3195
Midland TX 79702

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Applicant Name: ConocoPhillips Company (281) 206-5282
Applicant's Address: 600 N. Dairy Ashford Rd., Houston TX 77079

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Steve Guyton

0702 0600 0001 8656 6977

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Sent To: <i>STEVE GUYTON</i>	
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	

SEP 29 2014
87552



September 26, 2014

R. R. Herrell Prop. Ltd.
P. O. Box 1688
Midland TX 79702

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Approximate Location: ≈25 air miles southeast of Malaga, NM
Applicant Name: ConocoPhillips Company (281) 206-5282
Applicant's Address: 600 N. Dairy Ashford Rd., Houston TX 77079

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Brian Wood



Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: RR HERRELL Prop
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: MIDLAND

EXHIBIT L



September 26, 2014

HPC Energy Inc.
810 N. Dixie Blvd.
Odessa TX 79761

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Location: 1226' FNL & 893' FWL Sec. 16, T. 26 S., R. 32 E., Lea County, NM
Approximate Location: ≈25 air miles southeast of Malaga, NM
Applicant Name: ConocoPhillips Company (281) 206-5282
Applicant's Address: 600 N. Dairy Ashford Rd., Houston TX 77079

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

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Certified Fee

Return Receipt Fee (Endorsement Required)

Restricted Delivery Fee (Endorsement Required)

Total Postage & Fees \$

SEP 29 2014

87552

Sent To: HPC ENERGY
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: ODESSA

PS Form 3800, August 2008



September 26, 2014

HPC Energy Inc.
3525 Andrews Highway
Midland TX 79703

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,
Brian Wood
Brian Wood

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Certified Fee	SEP 29 2014
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: **HPC**
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: **MIDLAND**

EXHIBIT L



September 26, 2014

McCombs Energy Ltd.
5599 San Felipe St., #1200
Houston TX 77056

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Approximate Location: ≈25 air miles southeast of Malaga, NM
Applicant Name: ConocoPhillips Company (281) 206-5282
Applicant's Address: 600 N. Dairy Ashford Rd., Houston TX 77079

Submission Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,
Brian Wood
ood

U.S. Postal Service™ **CERTIFIED MAIL™ RECEIPT**
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Total Postage & Fees	\$

Sent To: **M. Comps**
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: **HOUSTON**



September 26, 2014

Mewbourne Oil Co.
P. O. Box 7698
Tyler TX 75711

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

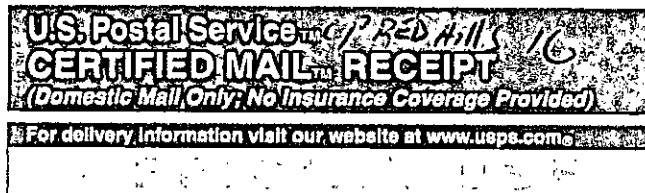
Well Name: Red Hills West 16 State SWD 1 (State lease) ID = 7,400'
Proposed Injection Zone: Delaware (from 4,855' to 7,400')
Location: 1226' FNL & 893' FWL Sec. 16, T. 26 S., R. 32 E., Lea County, NM
Approximate Location: ≈25 air miles southeast of Malaga, NM
Applicant Name: ConocoPhillips Company (281) 206-5282
Applicant's Address: 600 N. Dairy Ashford Rd., Houston TX 77079

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Sincerely,

Brian Wood



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Total Postage & Fees	\$ 87552	

Sent To: MEWBOURNE OIL
Street, Apt. No.:
or PO Box No.:
City, State, ZIP+4: TYLER, TX

EXHIBIT L



September 26, 2014

Pioneer Natural Res. USA Inc.
1401 17th St., Suite 1200
Denver CO 80202

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

ood



Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 87552	

Sent To: PIONEER
Street, Apt. No.:
or PO Box No.:
City, State, ZIP+4: DENVER, CO



September 26, 2014

Quay Valley Inc.
1608 N. Big Spring
Midland TX 79701

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

Brian Wood



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Restricted Delivery Fee (Endorsement Required)	_____	
Total Postage & Fees	87562	

Sent To: QUAY VALLEY
Street, Apt. No. or PO Box No.: 1608 N. Big Spring
City, State, ZIP+4: MIDLAND

EXHIBIT L



September 26, 2014

Quay Valley Inc.
P. O. Box 51470
Midland TX 79710

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

Brian Wood



Postage	_____	Postmark Here
Certified Fee	_____	
Return Receipt Fee (Endorsement Required)	_____	
Restricted Delivery Fee (Endorsement Required)	_____	
Total Postage & Fees	\$	

Sent To: QUAY VALLEY
Street, Apt. No. or PO Box No.: P.O. 51470
City, State, ZIP+4: MIDLAND



September 26, 2014

W. N. Rees & Elizabeth Shelton
810 N. Dixie Blvd., #202
Odessa TX 79761

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

Brian Wood
Brian Wood

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Postage	\$	87552
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Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	87552

Sent To: REES & SHELTON
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: ODESSA

EXHIBIT L



September 26, 2014

Sahara Operating Co.
P. O. Box 4130
Midland TX 79704

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Sincerely,

Brian Wood
Brian Wood

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Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	87552

Sent To: SAHARA
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: MIDLAND



September 26, 2014

Marvin L. Smith
Box 217
McKee TX 79756

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

Brian Wood



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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

SEP 29 2014
87652

Sent To: MARVIN SMITH
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: McKee TX

EXHIBIT L



September 26, 2014

Tempo Energy Inc.
P. O. Box 1034
Midland TX 79702

ConocoPhillips Company is applying (see attached application) to drill the Red Hills West 16 State SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,



Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

SEP 29 2014
87652

Sent To: TEMPO ENERGY
Street, Apt. No., or PO Box No.:
City, State, ZIP+4: MIDLAND

**C-108 Review Checklist:**Received 9/30/14 Add. Request: Protested by Mawbourne/ resolved by neg. Reply Date: 12/17/14 Suspended: None (15)ORDER TYPE: WFX / PMX / SWD Number: 1514 Order Date: 12/17/14 Legacy Permits/Orders: NoneWell No. 1 Well Name(s): Red Hills West 16 SWDAPI: 30-025-42174 Spud Date: TBD New or Old: New (UIC Class II Primacy 03/07/1982)Footages 1226 FWL / 893 FWL Lot — or Unit D Sec 16 Tsp 26S Rge 32E County LeaGeneral Location: along TX border / near Red Hills Draw / east of Delaware - (Cherry Bell) Pool No.: 96100BLM 100K Map: Jal Operator: ConocoPhillips Company OGRID: 217817 Contact: PermitsWest / WoodCOMPLIANCE RULE 5.9: Total Wells: 4557 Inactive: 1 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes Date: 12/17/14WELL FILE REVIEWED ☒ Current Status: APD filed; old interval in APDWELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: —Planned Rehab Work to Well: * Revised injection interval with MEC [4855'-7400' to 4855'-6275']

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and
		Borehole / Pipe	Depths (ft)	Sx or Cf	Determination Method
Planned <input checked="" type="checkbox"/> or Existing <u>—</u>	Surface	<u>12 1/4 / 9 5/8</u>	<u>0 to 785</u>	<u>366</u>	<u>Cir. to surface</u>
Planned <input checked="" type="checkbox"/> or Existing <u>—</u>	Interm/Prod	<u>8 3/4 / 7</u>	<u>0 to 4855</u>	<u>702</u>	<u>Cir. to surface</u>
Planned <u>—</u> or Existing <u>—</u>	Interm/Prod	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <u>—</u> or Existing <u>—</u>	Prod/Liner	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <u>—</u> or Existing <u>—</u>	Liner	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input checked="" type="checkbox"/> or Existing <u>—</u>	OH / PERF	<u>6 1/8 hole</u>	<u>* 4855 to 6275</u>	<u>Inj Length 1420</u>	
Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Completion/Operation Details:	
Adjacent Unit: Litho. Struc. Por.			<u>Castle</u>	Drilled TD <u>—</u>	PBTD <u>—</u>
Confining Unit: Litho. Struc. Por.		<u>220 to 270</u>	<u>Delaware</u>	NEW TD <u>6275</u>	NEW PBTD <u>—</u>
Proposed Inj Interval TOP:		<u>4855</u>	<u>Bell Canyon</u>	NEW Open Hole <input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>	
Proposed Inj Interval BOTTOM:		<u>6275</u>	<u>Cherry Canyon</u>	Tubing Size <u>3 1/2</u> in. Inter Coated? <u>Yes</u>	
Confining Unit: Litho. Struc. Por.		<u>+ 6275</u>	<u>Brushy Canyon</u>	Proposed Packer Depth <u>4755</u> ft	
Adjacent Unit: Litho. Struc. Por.			<u>Bone Spring</u>	Min. Packer Depth <u>4755</u> (100-ft limit)	
AOR: Hydrologic and Geologic Information				Proposed Max. Surface Press. <u>—</u> psi	Admin. Inj. Press. <u>—</u> (0.2 psi per ft)
POTASH: R-111-P <u>NA</u>	Noticed? <u>NA</u>	BLM Sec Ord <u>No</u>	WIPP <u>NA</u>	Noticed? <u>NA</u>	Salt/Salado T. <u>B</u> : NW: Cliff House fm <u>NA</u>
FRESH WATER: Aquifer <u>Shallow Alluvial / Docks</u>	Max Depth <u>430</u>	tested to <u>800'</u>	ESD records	HYDRO AFFIRM STATEMENT BY Qualified Person <input checked="" type="checkbox"/>	
NMOSE Basin: <u>Carlsbad</u>	CAPITAN REEF: thru <input type="checkbox"/> adj <input checked="" type="checkbox"/> <u>NA</u>	No. Wells within 1-Mile Radius? <u>0</u>	FW Analysis: <u>NA</u>		
Disposal Fluid: Formation Source(s) <u>Avalon, Bone Spring, Delaware, WC</u>	Analysis? <u>Yes</u>	On Lease <input type="checkbox"/> Operator Only <input checked="" type="checkbox"/> or Commercial <input type="checkbox"/>			
Disposal Int: Inject Rate (Avg/Max BWPD): <u>12000 BWPD</u>	Protectable Waters: <u>Low prob</u>	Source: <u>old source</u>	System: Closed <input checked="" type="checkbox"/> or Open <input type="checkbox"/>		
HC Potential: Producing Interval? <u>No</u>	Formerly Producing? <u>Yes</u>	Method: Logs/DST/P&A/Other <u>—</u>	2-Mile Radius Pool Map <input type="checkbox"/>		
AOR Wells: 1/2-M Radius Map? <u>Yes</u>	Well List? <u>Yes</u>	Total No. Wells Penetrating Interval: <u>9</u>	Horizontals? <u>all 9</u>		
Penetrating Wells: No. Active Wells <u>9</u>	Num Repairs? <u>2</u>	on which well(s)? <u>Two wells: the #1H and the #6H - cont</u>	Diagrams? <u>No horizontal</u>		
Penetrating Wells: No. P&A Wells <u>0</u>	Num Repairs? <u>0</u>	on which well(s)? <u>Application has too shallow wells</u>	Diagrams? <u>Yes</u>		
NOTICE: Newspaper Date <u>06/11/14</u>	Mineral Owner <u>SLO</u>	Surface Owner <u>SLO / Ameland</u>	N. Date <u>9/26/14</u>		
RULE 26.7(A): Identified Tracts? <u>HPC / Quay Valley / HPC / McCombs</u>	Affected Persons: <u>BLM / Childress / Davon / Forrestal / EOG / Sahara</u>	N. Date <u>9/26/14</u>			

Order Conditions: Issues: two horizontals with cmt issues; HC potential; injection interval - open holeAdd Order Cond: Connective action - cont on 2 horizontals; added mud log & calc. valve; tracer survey within one year

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., 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-105 Revised August 1, 2011						
		1. WELL API NO. 30-025-40415								
		2. Type of Lease <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN								
		3. State Oil & Gas Lease No.								
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: <input type="checkbox"/> COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) <input type="checkbox"/> C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)		5. Lease Name or Unit Agreement Name RED HILLS WEST								
		6. Well Number: 6H AUG 10 2013								
7. Type of Completion: <input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER		RECEIVED								
8. Name of Operator ConocoPhillips Company		9. OGRID 217817								
10. Address of Operator P.O. Box 51810 Midland, TX 79710		11. Pool name or Wildcat JENNINGS; UPPER BONE SPRING SHALE								
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	C	16	26S	32E		180	N	2010	W	LEA
BH:	N	16	26S	32E		343	S	2293	W	LEA
13. Date Spudded 01/10/2013	14. Date T.D. Reached 02/03/2013	15. Date Rig Released 07/19/2013		16. Date Completed (Ready to Produce) 07/19/2013		17. Elevations (DF and RKB, RT, GR, etc.) 3202' GR				
18. Total Measured Depth of Well 14012'		19. Plug Back Measured Depth 14012'		20. Was Directional Survey Made?		21. Type Electric and Other Logs Run CBL				
22. Producing Interval(s), of this completion - Top, Bottom, Name 8826', 14,012', AVALON										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13 3/8"		54.5#		905'		17 1/2"		1040 SX		23 BBLS
9 5/8"		36#		4553'		12 1/4"		1460 SX		SURF
7"		29#		9719'		8 3/4"		540 SX		TOC 5885'
24. LINER RECORD SIZE TOP BOTTOM SACKS CEMENT SCREEN 4 1/2" 9236' 13985' NA						25. TUBING RECORD SIZE DEPTH SET PACKER SET 2 7/8 9229				
26. Perforation record (interval, size, and number) 9863'-13,960'						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 9863'-13960' TOTAL PROPPANTS= 1,471,577#				
28. PRODUCTION										
Date First Production 07/25/2013		Production Method (Flowing, gas lift, pumping - Size and type pump) PUMPING				Well Status (Prod. or Shut-in) PRODUCING				
Date of Test 07/26/2013	Hours Tested 24 HR	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
				240	500	1800				
Flow Tubing Press. 1100	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
			240	500	1800	49				
29. Disposition of Gas (Sold, used for fuel, vented, etc.)						30. Test Witnessed By				
31. List Attachments										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude			Longitude			NAD 1927 1983				
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature <i>Ashley Bergen</i>		Printed Name Ashley Bergen			Title Staff Regulatory Technician			Date 07/29/2013		
E-mail Address ashley.bergen@cop.com										

SEP 04 2013

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., 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-105 Revised August 1, 2011
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		2. Type of Lease <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN
		3. State Oil & Gas Lease No.
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12. Location	Unit Ltr	Section
Surface:	D	16
BH:	M	16
Township	Range	Lot
26S	32E	
Feet from the	N/S Line	Feet from the
180	N	640
330 50 11 5 N	W	411
County	LEA	
13. Date Spudded 08/24/2012	14. Date T.D. Reached 09/14/2012	15. Date Rig Released 07/24/2013
16. Date Completed (Ready to Produce) 07/24/2013		17. Elevations (DF and RKB, RT, GR, etc.) 3201
18. Total Measured Depth of Well 13,434'	19. Plug Back Measured Depth 13,434'	20. Was Directional Survey Made?
		21. Type Electric and Other Logs Run CBL
22. Producing Interval(s), of this completion - Top, Bottom, Name 8,894', 13434', AVALON		
23. CASING RECORD (Report all strings set in well)		
CASING SIZE	WEIGHT LB/FT.	DEPTH SET
13 3/8"	54.5#	793'
9 5/8"	36#	4479'
7"	29#	9340'
<i>Top of inspection mt. 4835'</i>		
24. LINER RECORD		
SIZE	TOP	BOTTOM
4 1/2"	8805'	13419'
25. TUBING RECORD		
SIZE	DEPTH SET	PACKER SET
2 7/8"	8802'	
26. Perforation record (interval, size, and number) 9453'-13,292'		
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 9453'-13,292' TOTAL PROPPANTS=2,049,560		
28. PRODUCTION		
Date First Production 07/29/2013	Production Method (Flowing, gas lift, pumping - Size and type pump) PUMPING	Well Status (Prod. or Shut-in) PRODUCING
Date of Test 07/29/2013	Hours Tested 24	Choke Size
Flow Tubing Press. 1350	Casing Pressure 1375	Calculated 24-Hour Rate
Prod'n For Test Period	Oil - Bbl. 800	Gas - MCF 650
Water - Bbl. 2400	Gas - Oil Ratio	
Oil Gravity - API - (Corr.) 49		
29. Disposition of Gas (Sold, used for fuel, vented, etc.)		
30. Test Witnessed By		
31. List Attachments		
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.		
33. If an on-site burial was used at the well, report the exact location of the on-site burial:		
Latitude Longitude NAD 1927 1983		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief		
Signature <i>Ashley Bergen</i>	Printed Name Ashley Bergen	Title Staff Regulatory Technician
E-mail Address ashley.bergen@cop.com	Date 07/29/2013	

SEP 05 2013

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

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(505) 982-2151 (Fax)

jamesbruc@aol.com

RECEIVED OGD

2014 OCT 27 P 3: 29

October 17, 2014

Via e-mail and U.S. Mail


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

Re: ConocoPhillips Company
Salt water disposal application
Red Hills West 16 State SWD Well No. 1
Unit D §16-26S-32E
Lea County, New Mexico

Dear Mr. Goetze:

Mewbourne Oil Company, an offset operator/lessee, objects to the above administrative application, because it believes the proposed Delaware injection interval is productive in this area.

Very truly yours,


James Bruce

Attorney for Mewbourne Oil Company

cc: Permits West, Inc. (via e-mail)

Goetze, Phillip, EMNRD

From: Goetze, Phillip, EMNRD
Sent: Friday, October 17, 2014 3:07 PM
To: Brian Wood (brian@permitswest.com)
Cc: Dawson, Scott, EMNRD; McMillan, Michael, EMNRD; Davidson, Florene, EMNRD
Subject: Protest of Application for Injection - Red Hills West 16 State SWD No. 1

RE: Red Hills West 16 State SWD No. 1 (API 30-025-Pending; pMAQM1427342414) Sec. 16, T. 26 S., R. 32 E., NMPPM, Lea County.

Mr. Wood:

OCD was notified through counsel that Mewbourne Oil Company is protesting this application due to the potential for hydrocarbon resources in the proposed injection interval. This party is identified as an affected person for the location being considered in the application. Therefore, you are being notified that if ConocoPhillips Company wishes for this application to be considered, it must either go to hearing or may be reviewed administratively if the protest is withdrawn as a result of a negotiated resolution with this party. The application will be retained by OCD, but suspended from further administrative review. Please contact OCD once you have made a decision regarding the application. Please me call with any questions regarding this matter. PRG

Contact Information:

Mr. James Bruce, Attorney
P. O. Box 1056
Santa Fe, NM 87504
505-982-2043 (phone)
e-mail: jamesbruc@aol.com

Phillip R. Goetze, P.G.

Engineering and Geological Services Bureau, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
O: 505.476.3466 F: 505.476.3462
phillip.goetze@state.nm.us

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October 29, 2014

Via e-mail

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

Re: ConocoPhillips Company
Salt water disposal application
Red Hills West 16 State SWD Well No. 1
Unit D §16-26S-32E
Lea County, New Mexico

Dear Mr. Goetze:

Mewbourne Oil Company hereby withdraws its October 17th objection to the above application, provided that:

The revised injection interval for ConocoPhillips' Red Hills West 16 State SWD Well No. 1 will be 4,855' MD to 6,275' MD, and the revised TD will be 6,275' MD. This will accommodate variations in formation occurrence depth-wise, and for a rat hole.

It is our understanding that ConocoPhillips will send the Division a revised injection application. Please contact me if you have any questions.

Very truly yours,



James Bruce

Attorney for Mewbourne Oil Company

cc: Permits West, Inc. (via e-mail)
ConocoPhillips Company