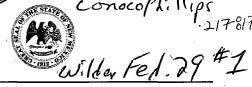
ENGINEER W

LOGGED IN [2,23.]

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



ADMINISTRATIVE APPLICATION CHECK

	[DHC-Dowr [PC-Po	ndard Location] [NSP-Non-Standard Pr nhole Commingling] [CTB-Lease Con ol Commingling] [OLS - Off-Lease St [WFX-Waterflood Expansion] [PMX-P [SWD-Salt Water Disposal] [IPI-I	ressure Maintenance Expansion]	
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Ap Location - Spacing Unit - Simultaneou NSL NSP SD	s Dedication	ave - 32 (
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measuremen DHC CTB PLC	99-6 1 PC □ OLS □ OLM □ □	765-326 Lea
	[C]	Injection - Disposal - Pressure Increase WFX PMX SWD	e - Enhanced Oil Recovery	
	[D]	Other: Specify	T C	<u>)</u>
[2]	NOTIFICATI [A]	ON REQUIRED TO: - Check Those Working, Royalty or Overriding F	Davidty Interest Overnors) 1
	[B]	M Offset Operators, Leaseholders or	Surface Owner	-2651-51
	[C]	Application is One Which Requir	es Published Legal Notice	-765'-59 15-3PST
	[D]	Notification and/or Concurrent Ap U.S. Bureau of Land Management - Commissioner	pproval by BLM or SLO of Public Lands, State Land Office	<i> </i> -2
	[E]	For all of the above, Proof of Not	ification or Publication is Attached, and/or,	
•	[F]	☐ Waivers are Attached		
[3]	· · · · · · · · · · · · · · · · · · ·	CURATE AND COMPLETE INFORMATION INDICATED ABOVE.	MATION REQUIRED TO PROCESS TH	E TYPE
	val is accurate ar		ion submitted with this application for adminite. I also understand that no action will be take submitted to the Division.	
	Note:	Statement must be completed by an individua		
Bu	AN MAIONINO	Signature	Title I	12/15/11
Print (or Type Name	Signature	DAIAN. C. MATONINO @ CONCE	Jate . : //
٠.		432-688-6913	e-mail Address	pullips. com

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: CONOCO Phillips Company
	OPERATOR: Conoco Phillips Company ADDRESS: 3700 N "A" Stauel, Bld, #6, Midland, TX 79705
	CONTACT PARTY: BUAN MAJONINO W/CONSCRIBURS REGULATION PHONE: 432-638-69
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 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:
,	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*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:
*	E-MAIL ADDRESS: baia. d. maionio © Conocophillips. 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.

- 1.Average 4,000 bbl/day maximum 10,000 bbl/day
- 2. Closed system
- 3. Maximum injection pressure 1,153 psi
- 4. See attached
- 5. See attached
- VIII. Geologic Name: Bell Canyon, Thickness: 155', Projected injection depths: 5765'-5920' TVD, Lithologic Detail: Sandstone with some interbedded shale, very fine to fine grain, brittle, poorly consolidated, well sorted, light gray to light tan, some shale lenses present, calcareous cement.
- IX. Well will be acidized in the Bell Canyon with 10,000 bbls as part of the initial completion.
- X. Logs will be submitted with completion report after well is drilled.
- XI. See attached
- XII. See attached.

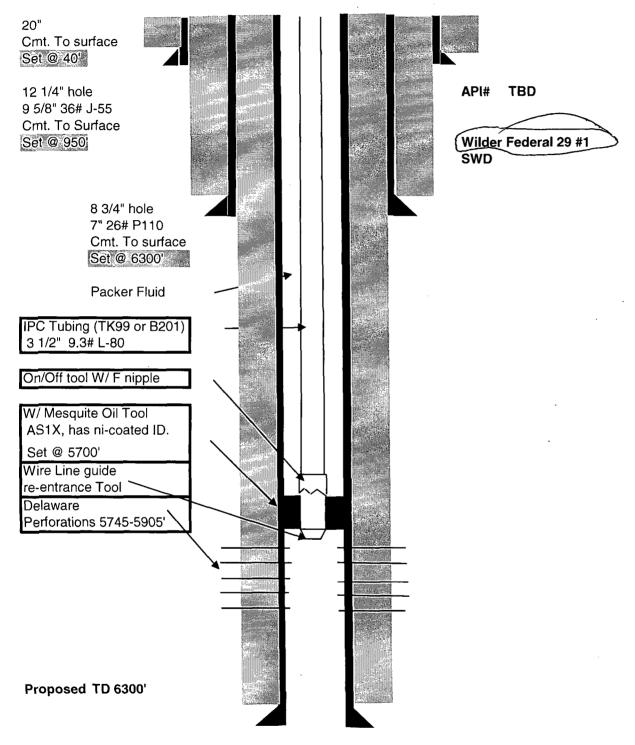
PLIMIPS Co.		
WELL NAME & NUMBER: Wilder 29 #15wb		
WELL LOCATION: 2010 FAL 2860 FWL	52.	265 326
FOOTAGE LOCATION	UNIT LETTER SECTION	TOWNSHIP RANGE
WELLBORE SCHEMATIC	WELL CONSTI	WELL CONSTRUCTION DATA Surface Casing
	" / 17 Ci-ci 17 // "	9%
	11010 0120. [6 1]	
	Cemented with: 280 sx.	orfi ³
	Top of Cement: Sun fact	Method Determined:
	Intermediate Casing	te Casing
	Hole Cize.	Casina Aire.
	Cemented with:sx.	orft
	Top of Cement:	Method Determined:
	Production Casing	n Casing
	Hole Size: 6 7/4 "	Casing Size: 7 o "
	Cemented with: \(\frac{\fir}{\fir}}}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}{\firac{\firac{\frac{\frac{\frac{\fir}}}}}{\frac{\frac{\frac{\fir}{\fir}}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}}{\frac{\frac{\fr	or ft ³
	Top of Cement: Suplace	Method Determined:
	Total Depth: 6300'	
	Injection Interval	Interval
	5765 7VD feet	t to \$920' TVD

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size:	Size: 3.5 "Lining Material: 74-99 TIC	
Type of Pa	Type of Packer: Nichel plaise	
Packer Se	Packer Setting Depth: 5,700'	
Other Typ	Other Type of Tubing/Casing Seal (if applicable):	
	Additional Data	
٠.		
1. Is thi	Is this a new well drilled for injection? X Yes No	
If no.	If no, for what purpose was the well originally drilled?	
2. Nam	Name of the Injection Formation: Sell Canyon	
3. Nam	Name of Field or Pool (if applicable):	
4. Has tinter	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. $\checkmark o$	
5. Give	Give the name and depths of any oil or gas zones underlying or overlying the proposed	
IIJec	injection zone in this area:	

Proposed



Red Hills West SWD Well Proposal

ConocoPhillips, Wilder Federal 29 1SWD Sect 29-T26S-R32E 2010' FNL & 2560'FWL Lea Co. NM

Geologic Summary:

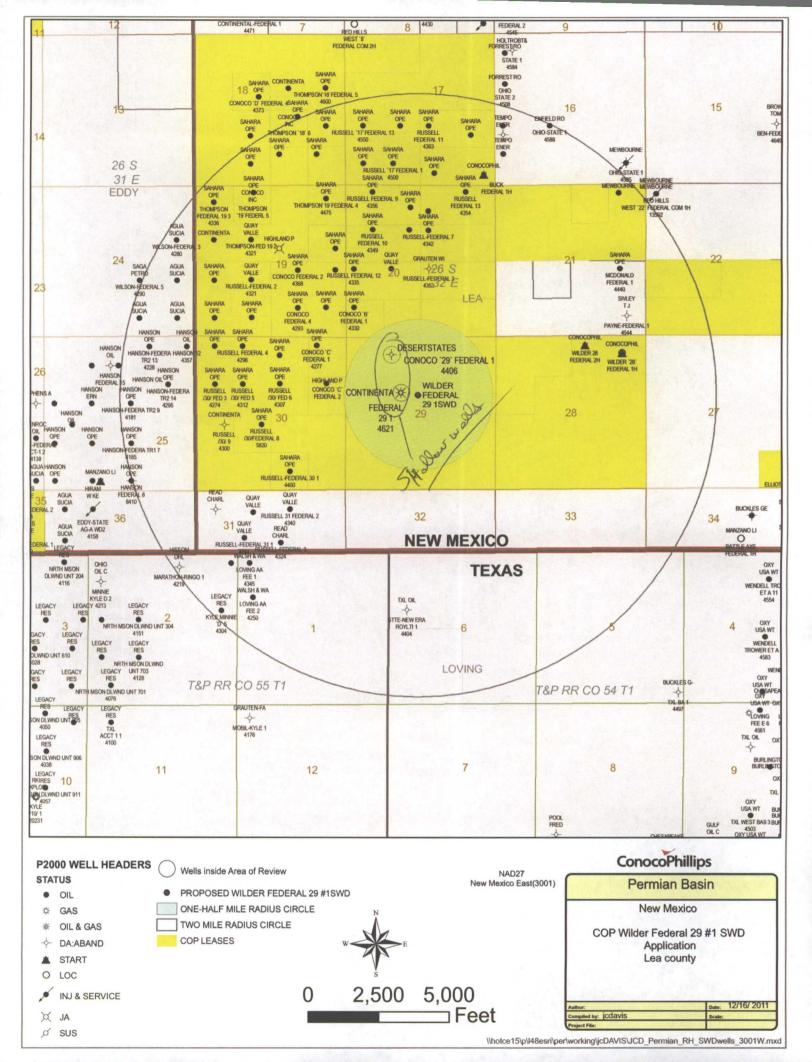
The proposed subject SWD well (ConocoPhillips, Wilder Federal 29 1SWD) will be located in section 29, T26S-R32E in Lea County, New Mexico. This geologic evaluation includes all of T26S-R32E in the interval from the top of the Delaware Bell Canyon to the top of the Lower Cherry Canyon. The Upper Delaware Bell Canyon sand members known as the Ramsey and Olds' sands are the only zones that have been found productive in or in the immediate area around this township. These Sands occur within the top 200' of the Delaware Bell Canyon Formation at a depth from 4,441' to 4,587' in the ConocoPhillips, Wilder Federal 28 1H located 7,545' southeast of the proposed Wilder Federal 29 1SWD location

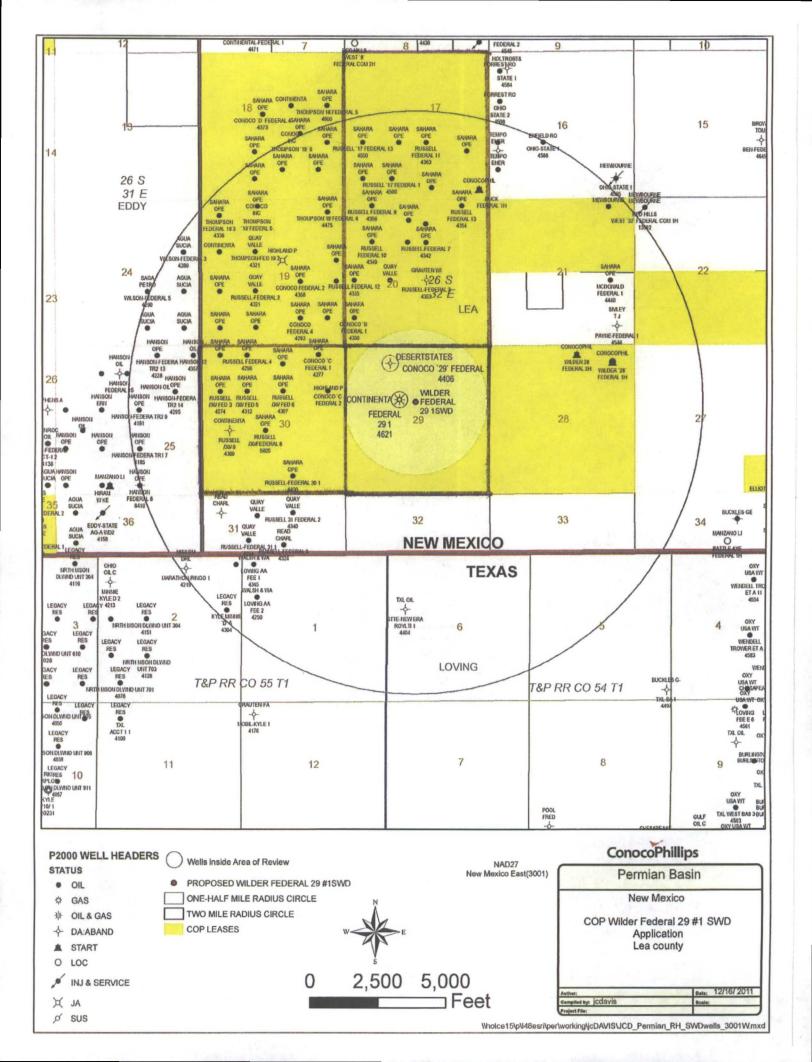
The interval indentified for salt water disposal is the Lower Bell Canyon Sand from 5,818' to 6,086' in the ConocoPhillips, Wilder Federal 28 1H. This well is the most recent penetration of the proposed SWD interval. This interval is composed of non-productive sandstones that have good porosity and permeability with numerous thin shales and carbonates that are very continuous across the area. This interval had no mudlog shows of significance when penetrated in the ConocoPhillips, Wilder Federal 28 1H. Water saturation calculations from open hole logs in this well indicate that the interval is wet and non-productive.

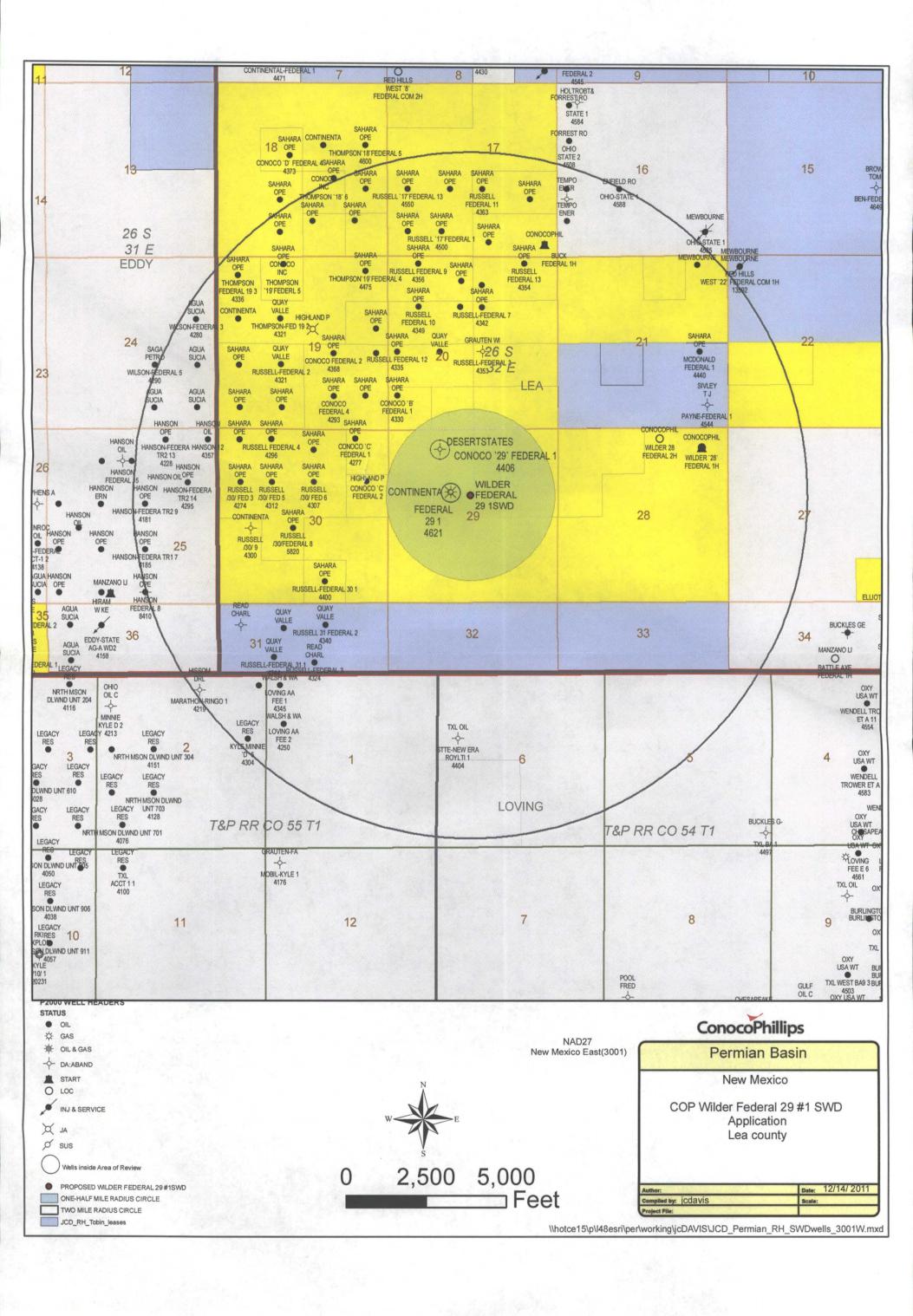
The interval thickness between the base of the Ramsey and Olds Sands and the top of the proposed water disposal zone is 1,230' in the ConocoPhillips, Wilder Federal 28 1H. The interval contains nine relatively thin shales that are continuous across the area. At the location of the proposed ConocoPhillips Wilder Federal 29 1SWD well, the interval thickness between the base of the Ramsey and Olds Sands and the top of the proposed water disposal zone is projected to be 1,222'. The gross thickness along with interbedded shales throughout the area should act as a low permeability barrier between the disposal interval and the Upper Delaware Bell Canyon Sands. Also, the proposed location for SWD is more than a 3,785' from any Delaware production.

For the reasons mentioned above, this interval appears to have no potential for oil or gas production at the proposed location of the Wilder Federal 29 1SWD and will be a good interval for salt water disposal. A review of geologic and engineering data in the immediate area of this SWD, finds that there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Harvey O. Vick III Geologist, ConocoPhillips API WELL_NAME WELL# SHORT_NAME CURR_OPERA Status SPUD Pepth HOLE LEASE_NAME Location Footage 300253166400 CONOCO '29' FEDERAL 29 26S 32E 660 FNL 1650 FWL 300250830100 WILDER '29' FEDERAL 29 26S 32E 1980 FNL 1980 FWL 300250830100 WILDER '29' WILDER '29' ConocoPhillips PA 7/3/1979 4621 WILDER '29' 29 26S 32E 1980 FNL 1980 FWL







L'ELLEOLE JUMP, 1070.

Carloso Feo "29"-1

1650 FALL & 660 FALL 529'

T-26-5, R-32-E Lea Cry

150 SSEPPER PLUM

CIRCUMSTE CAST UP 876-51/2 Annusuus

TO SUPPORE

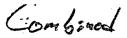
EMT RIPE

EMT TO

Plus

Musi

TAG STON LOW TO E 1806





DownHole SAT(tm)

CHEMISTRY OF WATER SOURCES MIXED

1) MEWBOURNE OIL COMPA

2) MEWBOURNE OIL COMPA

3) MEWBOURNE OIL COMPA

Report Date: 05-05-2011

	ł	2	3
		BY WEIC	HT
CATIONS	33.33	33.33	33.33
Calcium(as Ca)	2490	689.00	2347
Magnesium(as Mg)	730.00	117.00	3546
Barium(as Ba)	0.900	. 1.66	1.70
Strontium(as Sr)	205.00	238.00	900.00
Sodium(as Na)	61500.	68000	81390
Potassium(as K)	1438	1290	1323
Lithium(as Li)	0.00	0.00	0.00
Iron(as Fe)	110.00	65.00	6.87
Ammonia(as NH ₃)	0.00	0.00	0.00
Aluminum(as Al)	0.00	0.00	0.00
Boron(as B)	0.00	0.00	0.00
Manganese (as Mn)	1.08	Ö.960	28.00
Zinc (as Zn)	0.00	0.00	0.00
Lead (as Pb)	0.00	0.00	0.00
ANIONS	4.	. 1	
Chloride(as Cl)	104000	106000	145300
Sulfate(as SO ₄)	1750	.1200	500.00
Bromine (as Br)	0.00	0.00	0.00
Dissolved CO ₂	0.3	0.3	22.6
Bicarbonate	2416.0	2135.0	85.0
Carbonate	0.0	0.0	0.0
Silica(as SiO ₂)	0.00	0.00	0.00
Phosphate(as PO ₄)	0.00	0.00	0.00
H ₂ S(as H ₂ S)	3.06	3.04	2.88
Fluoride(as F)	0.00	0.00	0.00
Nitrate(as NO ₃)	0.00	0.00	0.00
PARAMETERS	•		*
pН	6.70	6.50	5.00
Temperature(OF)	100.00	100.00	100.00
Pressure(atm)	14.70	14.70	14.70
Density(g/mL)	1,11	1.12	1.14
Calculated TDS	174372	179504	235410

1. Red Hills 8#14 (Aunton)
2. Red Hills 22#14 (Aunton)
3. Russell Fed 17 (Delaware)

Combined.



DownHole SAT(tm)

DEPOSITION INDICATORS OF SOURCE WATERS MIXED

MEWBOURNE OIL COMPA

2) MEWBOURNE OIL COMPA

3) MEWBOURNE OIL COMPA

Report Date: 05-05-2011

•	•			
	1 %	BY WEI	3 THE	
SATURATION LEVEL	33.33	33.33	33.33	
Calcite	14.24	2.80	0.00756	
Aragonite	12.07.	2.37	0.00640	
Witherite	< 0.001	< 0.001	< 0.001	, DI THIH (Alvalon)
Strontianite	1.04	0.848	0.00129	(KH)
Magnesite	5.63	0.645	0.0179	1 RH 8#14 (Avalon) 2 RH 22#14 (Avalon) 3 Rossell Fed 1) (Delamave)
Anhydrite	0.374	0.0881	0.0753	L Rell
Gypsum	0.432	0.101	0.0792	7 A / Fed / (Delan ave)
Barite	2.06	3.22	0.419	3 Nossell 1-
Celestite	0.457	0.448	0.216	
Calcium phosphate	0.00	0.00	0.00	
Hydroxyapatite	0.00	0.00	0.00	
Fluorite	0.00	0.00	0.00	
Silica	0.00	0.00	0.00	
Brucite	< 0.001	< 0.001	< 0.001	·
Mag. silicate	0.00	0.00	0.00	
Ferric hydroxide	< 0.001	< 0.001	< 0.001	
Siderite	597.55	249.88	0.0110	
Strengite	0.00	0.00	0.00	
Halite	0.0998	0.113	0.234	
Thenardite	< 0.001	< 0.001	< 0.001	
Iron sulfide	28.64	8.67	0.00154	
	•			
SIMPLE INDICES				
Langelier	1.67	0.865	-1.32	
Ryznar	3.36	4.77	7.64	
Oddo-Tomson	0.594	-0.213	-2.34	
Stiff-Davis	1.39	0.600	-1.09	
Puckorius	0.822	2.12	5.58	
Larson-Skold	83.11	95.79	3375	

BJ Chemical Services - Midland Analytical Laboratory P.O. Box 61427, Midland, Texas 79711 Combined



DownHole SAT(tm)

MIXED WATER CHEMISTRY

1) MEWBOURNE OIL COMPA

2) MEWBOURNE OIL COMPA

3) MEWBOURNE OIL COMPA

Report Date: 05-05-2011

CATIONS	•	ANIONS	
Calcium (as Ca)	1842	Chloride (as Cl)	118433
Magnesium (as Mg)	1464	Sulfate (as SO ₄)	1150
Barium (as Ba)	1.42	Bromine (as Br)	0.00
Strontium (as Sr)	447.67	Dissolved CO ₂ (as CO ₂)	7.73
Sodium (as Na)	70297	Bicarbonate (as HCO ₃)	1361
Potassium (as K)	1350	Carbonate (as CO ₃)	11.76
Lithium (as Mg)	0.00	Silica (as SiO ₂)	0.00
Ammonia (as NH ₃)	0.00	H ₂ S (as H ₂ S)	2.99
Aluminum (as Al)	0.00	Phosphate (as PO ₄)	0.00
Iron (as Fe)	60.62	Nitrate (as NO ₃)	0.00
Boron (as B)	0.00	Fluoride (as F)	0.00
Manganese (as Mn)	10.01		
Zinc (as Zn)	0.00		
Lead (as Pb)	0.00		
			and the second s

PARAMETERS

Calculated T.D.S.	196567
Temperature (^O F)	100.00
Density(g/mL)	1.12
Pressure(atm)	14.70
Calculated T.D.S.	196567
Molar Conductivity	17385

CORROSION RATE PREDICTION

CO₂ - H₂S Rate(mpy) 0.00

BJ Chemical Services - Midland Analytical Laboratory
P.O. Box 61427, Midland, Texas 79711



DownHole SAT(tm)

MIXED WATER DEPOSITION POTENTIAL INDICATORS

1) MEWBOURNE OIL COMPA

2) MEWBOURNE OIL COMPA

3) MEWBOURNE OIL COMPA

Report Date: 05-05-2011

		·	
SATURATION LEVEL		MOMENTARY EXCESS (Lbs/10	00 Barrels)
Calcite (CaCO ₃)	3.16	Calcite (CaCO ₃)	0.105
Aragonite (CaCO ₃)	2.68	Aragonite (CaCO ₃)	0.0958
Witherite (BaCO ₃)	< 0.001	Witherite (BaCO ₃).	-28.09
Strontianite (SrCO ₃)	0:533	Strontianite (SrCO ₃)	-0.197
Magnesite (MgCO ₃)	3.56	Magnesite (MgCO3)	0.0926
Anhydrite (CaSO ₄)	0.178	Anhydrite (CaSO ₄)	-633.16
Gypsum (CaSO ₄ *2H ₂ O)	0.199	Gypsum (CaSO ₄ *2H ₂ O)	-641.13
Barite (BaSO ₄)	1.64	Barite (BaSO ₄)	0.328
Celestite (SrSO ₄)	0.503	Celestite (SrSO ₄)	-119.65
Fluorite (CaF ₂)	0.00	Fluorite (CaF ₂)	-5.92
Calcium phosphate	0.00	Calcium phosphate	>-0.001
Hydroxyapatite	0.00	Hydroxyapatite	-334.88
Silica (SiO ₂)	0.00	Silica (SiO ₂)	-41.28
Brucite (Mg(OH) ₂)	< 0.001	Brucite (Mg(OH) ₂)	-0.256
Magnesium silicate	0.00	Magnesium silicate	-107.46
Iron hydroxide (Fe(OH)3)	< 0.001	Iron hydroxide (Fe(OH)3)	< 0.001
Strengite (FePO ₄ *2H ₂ O)	0.00	Strengite (FePO ₄ *2H ₂ O)	>-0.001
Siderite (FeCO ₃)	79.02	Siderite (FeCO ₃)	0.175
Halite (NaCl)	0.140	Halite (NaCl)	-103740
Thenardite (Na2SO ₄)	< 0.001	Thenardite (Na2SO ₄)	-85816
Iron sulfide (FeS)	4.62	Iron sulfide (FeS)	0.430
SIMPLE INDICES	•	BOUND IONS TOTAL	FREE
Langelier	1.07	Calcium 1842	1643
Ryznar	4.22	Barium 1,42	1.42
Puckorius	1.64	Carbonate 11.76	0.263
Larson-Skold Index	148.23	Phosphate 0.00	0.00
Stiff Davis Index	0.957	Sulfate 1150	395.19
Oddo-Tomson	-0.00539		

OPERATING CONDITIONS

Temperature	(^O F)	100.00
Time(secs)		 1.00

BJ Chemical Services - Midland Analytical Laboratory P.O. Box 61427, Midland, Texas 79711

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

Account Representative: Mossman, Willis

Production Water Analysis

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

Lab Test Number Sample Date

2011111305

05/03/2011

[
]

Specific Gravity:

TDS:

218188

pH:

5.00

Cations:	mg/L	as:	
Calcium	2347	(Ca [↔])	
Magnesium	3546	(Mg ⁺⁺)	
Sodium	64150	(s (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	(CI)	
Gases:			
Carbon Dioxide	150	(CO ₂)	
Hydrogen Sulfide	0.0	(H ₂ S)	

Russel Fed 17. Delaware

Analytical Laboratory Report for: MEWBOURNE OIL COMPANY

Account Representative: Mossman, Willis



DownHole SAT[™] Scale Prediction @ 100 deg. F

[Lab Test Number	Sample Date	Location	:
2011111305 Mineral Scale	05/03/2011 Saturation Index	Russell Fed 17 Momentary Excess (Ibs/1000 bbls)	
Calcite (CaCO3)	0.01		
Strontianite (SrCO3)	0.00	-0.07	
Anhydrite (CaSO4)	80.0	-0.64	
Gypsum (CaSO4*2H2O)	0.08	-1427.49	
Barite (BaSO4)	0.42	-1541.08	
Celestite (SrSO4)	0.22	-3.90	•
Siderite (FeCO3)	0.01	-501.39	•
Halite (NaCl)	0.23	-0.06	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Iron sulfide (FeS)	0.00	-223502.44	
Calcite (CaCO3)	0.01	-9.96	
Strontianite (SrCO3)	0.00	-0.07	
Anhydrite (CaSO4)	0.08	-0.64	•
Gypsum (CaSO4*2H2O)	0.08	-1427,49	•
Barite (BaSO4)	0.42	-1541.08	•
Celestite (SrSO4)	0.22	-3.90	
Siderite (FeCO3)	0.01	-501.39	
Halite (NaCl)	0.23	-0.06	
Iron sulfide (FeS)	0.00	-223502.44 -9.96	

Interpretation of DHSat Results:

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) to positive (precipitating) values. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

Analytical Laboratory Report for MEWBOURNE OIL COMPANY

BAKER HUGHES

Account Representative: Mossman, Willis

Production Water Analysis

Listed below please find water analysis report from: Red Hills 22 Federal, 1

Lab Test Number	4	Sample Date
2011111304		05/03/2011

[
]

Specific Gravity: 1.117

TDS: 179737 pH: 6.50

pn:	0.30			
Cations:		mg/L	as:	
Calcium		689	(Ca ⁺⁺)	
Magnesium		117	(Mg ^{tt)}	
Sodium	•	68000	(Na ⁺)	
Iron		65.00	(Fe ⁺⁺)	٠
Potassium		1290.0	(K [*])	
Barium		1.66	(Ba ⁺⁺)	
Strontium		238.00	(Sr '')	
Manganese		0.96	(Mn)	
Anions:	·	mg/L	as:	
Bicarbonate		2135	(HCO,)	
Sulfate		1200	(SO ₄ ⁼)	٠
Chloride		106000	(CI)	
Gases:	•	· ·		
Carbon Dioxide		250	(CO ₂)	
Hydrogen Sulfide	•	0.0	(H ₂ S)	

Red Hills 22#/H

Analytical Laboratory Report for: MEWBOURNE OIL COMPANY

Account Representative: Mossman, Willis



DownHole SAT[™] Scale Prediction @ 100 deg. F

[Lab Test Number	Sample Date	Location
2011111304 Mineral Scale	05/03/2011 Saturation Index	1 Momentary Excess (lbs/1000 bbls)
Calcite (CaCO3)	2.80	0.81
Strontianite (SrCO3)	0.85	-0.33
Anhydrite (CaSO4)	0.09 -	-2984.15
Gypsum (CaSO4*2H2O)	0.10	-3062.40
Barite (BaSO4)	3.22	1.94
Celestite (SrSO4)	0.45	-354.38
Siderite (FeCO3)	250.14	1.45
Halite (NaCl)	0.11	-329277.63
Iron sulfide (FeS)	0.00	-0.22

Interpretation of DHSat Results:

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) to positive (precipitating) values. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

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: 1.1

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,)
Sulfate	1750	(\$O ₄ ⁻)
Chloride	104000	(CI)
Gases:	•	
Carbon Dioxide	270	(CO ₂)
Hydrogen Sulfide	0.0	(H ₂ S)

Red Hills 8#14

Analytical Laboratory Report for: MEWBOURNE OIL COMPANY

Account Representative: Mossman, Willis



DownHole SAT[™] Scale Prediction @ 100 deg. F

[] Lab Test Number	Sample Date	Location	
2011111303 Mineral Scale	05/03/2011 Saturation Index	1H Momentary Excess (lbs/1000 bbls)	
Calcite (CaCO3)	14.26	1.66	
Strontianite (SrCO3)	1.04	0.09	
Anhydrite (CaSO4)	0.37	-1280.31	
Gypsum (CaSO4*2H2O)	0.43	-1168.76	
Barite (BaSO4)	2.06	0.79	
Celestite (SrSO4)	0.46	-328.97	
Siderite (FeCO3)	598.24	2.06	
Halite (NaCI)	0.10	-341007.44	
Iron sulfide (FeS)	0 00	-0.08	

Interpretation of DHSat Results:

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) to positive (precipitating) values. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.



Water Analysis

Date: 13-May-11

2708 West County Road, Hobbs NM 88240 Phone (575) 392-5556 Fax (575) 392-7307 Freshwater well #1 21K-265-32E

Analyzed For

Mewbourne	Page	HSAVVECIA!	Ar-	Lea	New Mexic
Sample Source	Source	•	Sample #	Но	use
Formation	•		Depth		
Specific Gravity	1.000		SG @) 60 °F	1.002
рН	7.09			ulfides	Absent
Temperature (°F)	70		Reducing .	Agents	
Cations					
Sodium (Calc)		in Mg/L	606	in PPM	605
Calcium		in Mg/L	156	in PPM	156
Magnesium		in Mg/L	29	in PPM	29
Soluable Iron (FE2)		in Mg/L	0.0	in PPM	0
Anions		2.05			
Chlorides		in Mg/L	600	in PPM	599
Sulfates		in Mg/L	850	in PPM	848
Bicarbonates		in Mg/L	112	in PPM	112
Total Hardness (as CaCO3) .	in Mg/L	510	in PPM	509
Total Dissolved Solids (Cald	c)	in Mg/L	2,353	in PPM	2,348
Equivalent NaCl Concentra	tion	in Mg/L	1,863	in PPM	1,860
Scaling Tendencies				. •	
Calcium Carbonate Index Below 500,000 I	Remote / 500,00	00 - 1,000,00	0 Possible / Above	1,000,000 Probable	17,509
Calcium Sulfate (Gyp) Index	.				132,600
Below 500,000 R	emote / 500,00	0 - 10,000,00	Possible / Above 1	0,000,000 Probable	9

Remarks



Water Analysis

Date: 13-May-11

2708 West County Road, Hobbs NM 88240 Phone (575) 392-5556 Fax (575) 392-7307 Freshwater Well # 2 21K-265-32E

Analyzed For

Company Mewbourne	Well Name	. C	ounty Lea I	∜State New Mexico
Sample Source	Source	Sample #	Sto	ck
Formation		Depth	· · · · · · · · · · · · · · · · · · ·	
Specific Gravity	1.000	SG @	60 °F	1.002
рН	7.47	S	ulfides	Absent
Temperature (°F)	70	Reducing A	\gents	
Cations				
Sodium (Calc)	in Mg/L	478	in PPM	477
Calcium	in Mg/L	92	in PPM	92
Magnesium	in Mg/L	14	in PPM	14
Soluable Iron (FE2)	in Mg/L	0.0	in PPM	0
Anions				
Chlorides	in Mg/L	400	in PPM	399
Sulfates	in Mg/L	670	in PPM	669
Bicarbonates	in Mg/L	78	in PPM	78
Total Hardness (as CaCO3)	in Mg/L	290	in PPM	289
Total Dissolved Solids (Calc,) in Mg/L	1,732	in PPM	1,729
Equivalent NaCl Concentrati	on in Mg/L	1,347	in PPM	1,345
Scaling Tendencies				
Calcium Carbonate Index Below 500,000 R	emote / 500,000 - 1,000,00	00 Possible / Above 1	,000,000 Probable	7,183
Calcium Sulfate (Gyp) Index				61,640
This Calculation is only an approx reatment.	imation and is only valid	before treatment o	fa well or several	weeks after

Remarks

Maiorino, Brian D

From: bookkeeping [bookkeeping@hobbsnews.com]

Sent: Monday, December 19, 2011 1:46 PM

To: Maiorino, Brian D

Subject: [EXTERNAL]Re: Legal notice and affidavit #2

Your ad has been placed to publish on the 22nd of December.

Thank you,

Yesenia

On Dec 16, 2011, at 9:05 AM, classifieds wrote:

Begin forwarded message:

From: "Maiorino, Brian D" < Brian.D.Maiorino@conocophillips.com>

Date: December 16, 2011 10:00:14 AM MST

To: "classifieds@hobbsnews.com" < classifieds@hobbsnews.com>

Subject: Legal notice and affidavit #2

ConocoPhillips Company PO Box 51810, Midland, TX 79710-1810, Contact: Brian Maiorino (432) 688-6913, is seeking administrative approval from the New Mexico Oil Conservation Division to dispose of salt water into one well on the Wilder lease, in the Bell Canyon pool.

Wilder Federal 29 #1SWD, 2010 FNL 2560 FWL Sec 29 Township 26S Range 32E, Lea County, NM. Injection Interval 5765'-5920'

The maximum injection rate will be 10,000 barrels of water per day and the maximum injection pressure will be 1,153 psi. Interested parties must file objections or request for hearing with the New Mexico Oil conservation Division, 1220 South Saint Francis Drive, Santa Fe NM 87504 within 15 days of this notice.

Brian D Maiorino
Regulatory Specialist
ConocoPhillips Company
432.688.6913
brian.d.maiorino@conocophillips.com

Jenna Arther Classifieds 575-391-5414- Direct 575-397-0610 -Fax classifieds@hobbsnews.com

Proof of Notice

I hereby certify that a complete copy of this application was sent by certified mail to the listed persons below on December 19, 2011

Offset Operator

Desert State Energy 811 Southriver Wimberley, TX 78676

Surface Owner

Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220

B. J. 12/19/11

Brian Maiorino ConocoPhillips Company Regulatory Specialist

# #	: U.S. Postal Service CERTIFIED MAII (Domestic Mail Only; No In	RECE	
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7010	Sent Desert State Energy Stire 811 Southriver or P Wimberley, TX 786 City, PS Form 3800 August 2006	76-5334	see Heverse for Instructions

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Subject: RE: Disposal applications from ConocoPhillips Company: Sections 29 and 17 of T26S, R32E, Lea County

else is needed Hi William, here is the needed lease map for the Wilder Federal 29 #1SWD. I am working on getting one for the Buck 17 #1SWD. Please let me know if anything

Thanks for your help!

Brian D Maiorino
Regulatory Specialist
ConocoPhillips Company
432.688.6913

brian.d.maiorino@conocophillips.com

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Tuesday, December 27, 2011 5:03 PM

To: Maiorino, Brian D **Cc:** Brooks, David K., EM

Cc: Brooks, David K., EMNRD

Subject: [EXTERNAL] Disposal applications from ConocoPhillips Company: Sections 29 and 17 of T26S, R32E, Lea County

Hello Brian,

Review. Just glanced over these applications and see that we need a description of each separately owned tract of land within or partially within the ½ mile Area's of

you intend to dispose of water, then provide notice to the mineral/royalty owner or owners of that tract. The notifications should go out to whomever controls any separately owned tract of land – this is normally the Lessees. If any tract is not leased in the depths I am attaching one example of how to do this. In this example, the tracts are shown on a map and the owners (lessees of each tract are identified)

You should pass this request to your landman?

Hope your holidays are going well.

Regards,

William V Jones, P.E.
Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462

From: Maiorino, Brian D [Brian.D.Maiorino@conocophillips.com] Monday, January 09, 2012 2:11 PM

Jones, William V., EMNRD

Sent:

<u>.</u> Subject: RE: Disposal applications from ConocoPhillips Company: Sections 29 and 17 of T26S, R32E, Lea County

Yes, ConocoPhillips has 100% working interest in the yellow acreage from the base of the Delaware to basement.

ConocoPhillips Company **Regulatory Specialist** Brian D Maiorino

432.688.6913

brian.d.maiorino@conocophillips.com

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Monday, January 09, 2012 10:12 AM

To: Maiorino, Brian D

Subject: [EXTERNAL]RE: Disposal applications from ConocoPhillips Company: Sections 29 and 17 of T26S, R32E, Lea County

Hello Brian,

Thanks for this.

The map shows COP lease coverage – does that mean COP has 100% Working Interest in that yellow acreage?

Also, let me know if these leases within the ½ mile Area of Review are "all depths" or not.

Thank You,

New Mexico Will Jones

Oil Conservation Division Images Contacts

From: Maiorino, Brian D [mailto:Brian.D.Maiorino@conocophillips.com]

Sent: Monday, January 09, 2012 7:34 AM

Jones, William V., EMNRD

Thursday, January 26, 2012 11:14 AM

'Maiorino, Brian D'

To: Cc: Subject:

From: Sent:

'Wesley_Ingram@blm.gov'; Kautz, Paul, EMNRD

Disposal application from ConocoPhillips Company: Wilder Federal 29 #1 30-025-NA Delaware from 5765 to 5920 feet, Lea County

Hello Brian,

Just reviewed the application on this proposed well,

- ġ Please send a wellbore diagram showing the well as it will be equipped for disposal.
- I looked at some surrounding logs, especially to the west of here. It seems the Delaware may drop off deeper in this Section? Do you guys have a structure map?
- ? Would you please ask your geologist to pick (or estimate) some tops for me?
- ġ Top of Delaware

a

- Top of Bell Canyon, Cherry Canyon and Brushy Canyon if possible
- For fresh water in this area, what is the name of the formation and depth to top and bottom of fresh water?
- Ð ones? If not sure, when will you know? one location, and if you move the location we have to relook at everything. How sure are you the footages sent with this application will be the final We have no well file on this proposed well yet – and no API number because you guys are likely applying to the BLM. The disposal permits are specific to
- Identify separately owned tracts as the previous email sent today...

Thanks for this,

Will Jones

New Mexico

Oil Conservation Division Images Contacts

Jones, William V., EMNRD

From: Sent:

Thursday, January 26, 2012 11:03 AM 'Maiorino, Brian D'

To: Subject: RE: Disposal applications from ConocoPhillips Company: Sections 29 and 17 of T26S, R32E, Lea County

Brian,

On these two maps you sent, could you quickly outline the separate "leases" that exist within the ½ mile AOR's and resend the map? The yellow acreage may be all ConocoPhillips, but looks like there may be separate leases and I can't tell because it's all yellow.

Also you said that ConocoPhillips owns everything from the base of the Delaware to basement – don't you mean from the "TOP" of the Delaware to basement?

Will Jones
New Mexico Oil Conservation Division Images Contacts

From: Maiorino, Brian D [mailto:Brian.D.Maiorino@conocophillips.com

Sent: Tuesday, January 31, 2012 1:53 PM

To: Jones, William V., EMNRD

Cc: Wesley Ingram@blm.gov; Kautz, Paul, EMNRE

Subject: RE: Disposal application from ConocoPhillips Company: Wilder Federal 29 #1 30-025-NA Delaware from 5765 to 5920 feet, Lea County

approved. Will get the rest of the info to you as soon as I can. Please let me know if there is anything else needed we are applying to drill this well with the BLM so we don't have an API #. However, the BLM will not approve their APD until the permit to inject has been Here are the requested maps with the leases outlined. I am working with the team to get the other info needed. The footages given will be the final location. Yes.

Thanks for your help

Brian D Maiorino

Regulatory Specialist

ConocoPhillips Company

432.688.6913

brian.d.maiorino@conocophillips.com

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us

Sent: Thursday, January 26, 2012 12:14 PM

To: Maiorino, Brian D

Cc: Wesley Ingram@blm.gov; Kautz, Paul, EMNRD

Subject: [EXTERNAL]Disposal application from ConocoPhillips Company: Wilder Federal 29 #1 30-025-NA Delaware from 5765 to 5920 feet, Lea County

Hello Brian,

Just reviewed the application on this proposed well

- Please send a wellbore diagram showing the well as it will be equipped for disposal.
- Ö I looked at some surrounding logs, especially to the west of here. It seems the Delaware may drop off deeper in this Section? Do you guys have a structure map:
- Ö Would you please ask your geologist to pick (or estimate) some tops for me?
- Top of Delaware
- Top of Bell Canyon, Cherry Canyon and Brushy Canyon if possible
- ď For fresh water in this area, what is the name of the formation and depth to top and bottom of fresh water?
- Φ ones? If not sure, when will you know? one location, and if you move the location we have to relook at everything. How sure are you the footages sent with this application will be the fina We have no well file on this proposed well yet – and no API number because you guys are likely applying to the BLM. The disposal permits are specific to
- Identify separately owned tracts as the previous email sent today...

Maiorino, Brian D [Brian.D.Maiorino@conocophillips.com]
Thursday, February 02, 2012 4:38 PM

Thursday, February 02, 2012 4:38 PM Jones, William V., EMNRD

Sent:

From:

To: Subject:

RE: Disposal application from ConocoPhillips Company: Wilder Federal 29 #1 30-025-NA Delaware from 5765 to 5920 feet, Lea

County

Sorry, I outlined the separate leases darker but must not have come out as clearly as I thought

Yes, there are two leases the Wilder SWD that fall within the AOR. NM27508 and NMLC068281B

The Buck has three leases that fall within the AOR. NMLC062749C, NMNM105560, and NMLC068281B

Brian D Maiorino
Regulatory Specialist
ConocoPhillips Company
432.688.6913

brian.d.maiorino@conocophillips.com

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Thursday, February 02, 2012 1:23 PM

To: Maiorino, Brian D

Subject: [EXTERNAL]RE: Disposal application from ConocoPhillips Company: Wilder Federal 29 #1 30-025-NA Delaware from 5765 to 5920 feet, Lea County

Hello Brian,

The separate tracts of land seem to all be colored "yellow" so it is hard to distinguish the separate leases

To ensure I am reading these maps correctly,

For the Wilder application, are there only two leases (tracts) involved within ½ mile of that well?

How many separate leases (or tracts) are in or partially in the AOR surrounding the well for the other disposal application?

Will Jones

New Mexico

Oil Conservation Division

Maiorino, Brian D [Brian.D.Maiorino@conocophillips.com]

Monday, February 06, 2012 11:58 AM Jones, William V., EMNRD

Wesley_Ingram@blm.gov; Kautz, Paul, EMNRD

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<u>.</u>

Subject:

Sent: From:

RE: Disposal application from ConocoPhillips Company: Buck Federal 17 #1 30-025-NA Delaware from 5745 to 5905 feet, Lea

County

Attachments: Buck Federal 17 #1SWD wellbore diagram.xls; Wilder Federal 29 #1SWD wellbore diagram.xls

Will, I received this from geology today. Please let me know if there is anything else needed or if there are any other questions that need answered. I've also attached wellbore diagrams for each well as requested

Please keep in mind that the Bell Canyon is consider the top of the Delaware in this area. Below are estimated tops in measured depth (MD) for the proposed SWD's.

0 Buck Federal 17 1SWD:

- Rustler _ 1025
- Delaware _ 4337'
- Bell Canyon _ 4337'
- Cherry Canyon _ 6139
- Brushy Canyon _ 7061'

0 Wilder Federal 29 1SWD:

- Delaware _ 4290' Rustler _ 935'
- Bell Canyon _ 4290'
- Cherry Canyon _ 6022'
 Brushy Canyon _ 6978'

of the proposed SWD wells is shown above range in depth of freshwater would generally be from surface to the top of the Rustler. The estimated MD of the Rustler top in each The sediments above the the Rustler Formation (the Quaternary age sediments) are consider to contain freshwater. Therefore the

Thanks!

	4		12/2				
	Injection Permit Checklist	(11/15/2010)	1/p 6	(2)			
	WFXPMX	SWD 200	Permit Date 28	UIC C	etr U	<u>j-/(v)</u>	_
	# Wells Well Name(s): W	ILDER FE	DERAL Z	9 #	1		_
- (-	API Num: 30-0 25 = 3	Spud [Date: NOT Ye	New/Old:	(UIC primacy Ma	rch 7, 1982)	
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f] ,	Planned Work to Well:						_
7/	Diagrams: Before Conversion_	After Conversion	Elogs in Imaging File	· ^	1 su		_
\$ /	Well Details:	Sizes HolePipe	Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method	-
	New_Existing _Surface	12/4 95/8			280	CIRC]
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•	NewExisting Liner		<u>.</u>				4
	New_Existing OpenHole			<u> </u>			_
	Depths/Formations:	Depths, Ft.	Formation	Tops?			
	Formation(s) Above	14300	BOOC.	1			
	Injection TOP:	5765 TV	Pell.	Max. PSI _	153 OpenHole	Perfs	$] \setminus$
	Injection BOTTOM:	5920 TV	10	1	3/2 Packer Dept	h 3,700	1-0
		6022	home	/			
William .	Formation(s) Below		<u> </u>	<u>' </u>	1280		y
	Gaptan-Reef?(Potash?	Noticed?)_[WIP	P?Noticed?	-}Salado Top	/Bol	_ Gliff House?	
	Fresh Water: Depths:	Formation	Wells	Yes Ar	nalysis?Affirmativ	e Statement	
EZ-	Disposal Fluid Analysis? Sources: AVALON (Qol						
7	Disposal Interval: Analysis?	Production Potentia	I/Testing: We	e or m	INDENE/50	ES + NOOTH	-c Pres
`	Notice: Newspaper Date 122	Surface Owner	BLM (1	2(41)	/ Mineral Owner(s)	BLM	_
	RULE 26.7(A) Affected Persons:	Desert Ste	ed tom	,		/	
	MOLL 20.7(A) Allected 1 elsolis.						_
	AOR: Maps? Well List?	Producing in Interval?	Wellbore Diag	rams?			-
	Active Wells O Repair	s? WhichWells?			· · · · · · · · · · · · · · · · · · ·		-
	P&A Wells Repairs	S? Which Wells?					
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	Issues:				Request Sent	Reply:	