Initial

Application Part I

Received: 04/30/2019

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

APR 30 2019 AM10:00

Revised March 23, 2017

RECEIVED: 04/30/2019	REVIEWER:	TYPE:	APP NO:	912858436
0113012017		ABOVE THIS TABLE FOR OCD DIVISION	USE ONLY	112858100
1	- Geologia	CO OIL CONSERVATI Cal & Engineering Bu ancis Drive, Santa F	ureau -	
	ADMINIST	ATIVE APPLICATION	CHECKLIST	- 14
		L ADMINISTRATIVE APPLICATIO QUIRE PROCESSING AT THE DIVI		
pplicant: Permian Oilfield Pa	artners, LLC.		OGRID	Number: <u>328259</u>
ell Name: Deep Hole Feder	ral SWD #1			025-Pending
SWD; Devonian-Silurian			Pool C	ode: 97869
) TYPE OF APPLICATIO A. Location – Spa NSL		aneous Dedication		C
DHC	ng – Storage – M CTB PI Disposal – Pressu	LC PC OLS pre Increase – Enhanc	OLM ed Oil Recovery	FOR OCD ONLY
C. Application D. Notification E. Notification F. Surface own	ators or lease hole erriding royalty ov requires publishe and/or concurre and/or concurre her above, proof of	ders wners, revenue owne		Notice Complete Application Content Complete
1.	action will be tak	and complete to the ken on this applicatio	best of my know	vledge. I also
Note: State	ment must be comple	ted by an individual with man	nagerial and/or super	visory capacity.
			04/26/201	9
ean Puryear			Date	
rint or Type Name			(817) 600-8772	

m

Signature

Phone Number

spuryear@popmidstream.com e-mail Address



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

Re: C-108 Application for SWD Well Permian Oilfield Partners, LLC Deep Hole Federal SWD #1 Sec. 19, Twp. 26S, Rge. 32E 1339' FSL, 250' FEL Lea County, NM

Mr. Goetze,

Attached is a C-108 Application for administrative approval of Permian Oilfield Partners LLC's proposed Deep Hole Federal SWD #1 located in Sec 19, Twp 26S, Rge 32E, Lea County, New Mexico. This well will be completed open hole in the Devonian-Silurian formation and will be operated as a commercial salt water disposal well.

Similar application exhibits were sent to offset operators, mineral owners, lessees and the surface owner. The distribution list and proof of mailing, as well as affidavit of publication are enclosed. A copy of this application has also been sent to NM OCD District 1 in Hobbs.

If you have any questions, please contact us at (817)606-7630.

Sincerely,

Sean Puryear Permian Oilfield Partners, LLC spuryear@popmidstream.com

Date:

64/26/2014

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Disposal Application qualifies for administrative approval? Yes
- II. OPERATOR: Permian Oilfield Partners, LLC.

ADDRESS: P.O. Box 1220, Stephenville, TX. 76401

CONTACT PARTY: Sean Puryear

PHONE: (817) 600-8772

- 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? No
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed;
 - 3. Proposed average and maximum injection pressure;
 - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 - 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Sean Puryear

SIGNATURE: Sem Fun

TITLE: Manager DATE: 4-25-2019

E-MAIL ADDRESS: spuryear@popmidstream.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.

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

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.

Additional Data

- 1. Is this a new well drilled for injection? Yes
- 2. Name of the Injection Formation: Devonian: Open Hole Completion

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- **3.** Name of Field or Pool (if applicable): SWD; Devonian-Silurian
- 4. Has the well ever been perforated in any other zone(s)? No: New Drill for Injection of Produced Water
- 5. Give the name and depths of any oil or gas zones underlying or overlying the proposed Injection zone in this area:

Overlying Potentially Productive Zones: Delaware, Bone Spring, Wolfcamp, Strawn, Atoka & Morrow Tops all above <u>14,750</u>'

Underlying Potentially Productive Zones: None

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC. Deep Hole Federal SWD #1 1339' FSL, 250' FEL Sec. 19, T26S, R32E, Lea Co. NM Lat 32.0245011° N, Lon 103.7065713° W GL 3175', RKB 3205'

Surface - (Conventional)

Casing: 20" - 94# H-40 STC Casing

Hole Size: 26" Casing: 20" - 94 Depth Top: Surface Depth Btm: 963' Cement: 624 sks - Class C + Additives Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 17.5" Casing: 13.375" - 54.5# J-55 & 61# J-55 STC Casing Depth Top: Surface Depth Btm: 4391' Cement: 1466 sks - Lite Class C (50:50:10) + Additives Cement Top: Surface - (Circulate)

Intermediate #2 - (Conventional)

Hole Size: 12.25" Casing: 9.625" - 40# L-80 & 40# HCL-80 BTC Casing

Casing: 7.625" - 39# HCL-80 FJ Casing

Depth Top: Surface Depth Btm: 11770' ECP/DV Tool: 4491' Cement: 1996 sks - Lite Class C (60:40:0) + Additives Cement Top: Surface - (Circulate)

Intermediate #3 - (Liner)

Hole Size: 8.5"

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Depth Top: 11570'

Depth Btm: 17021'

Cement: 259 sks - Lite Class C (60:40:0) + Additives Cement Top: 11570' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5" Depth: 18352'

Inj. Interval: 17021' - 18352' (Open-Hole Completion)

Tubing - (Tapered)

 Tubing Depth:
 16976'
 Tubing:
 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80

 X/O Depth:
 11570'
 FJ Casing (Fiberglass Lined)

 X/O:
 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)

 Packer Depth:
 16986'
 Packer:

WELLBORE SCHEMATIC

Permian Olin_{eld} Partners, LLC. Deep Hole Federal SWD #1 1339' FSL, 250' FEL Sec. 19, T26S, R32E, Lea Co. NM Lat 32.0245011° N, Lon 103.7065713° W GL 3175', RKB 3205'

Surface - (Conventional)

.

Hole Size:	26"
Casing:	20" - 94# H-40 STC Casing
Depth Top:	Surface
Depth Btm:	963'
Cement:	624 sks - Class C + Additives
Cement Top:	Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size:	17.5"
Casing:	13.375" - 54.5# J-55 & 61# J-55 STC Casing
Depth Top:	Surface
Depth Btm:	4391'
Cement:	1466 sks - Lite Class C (50:50:10) + Additives
Cement Top:	Surface - (Circulate)

Intermediate #2 - (Conventional)

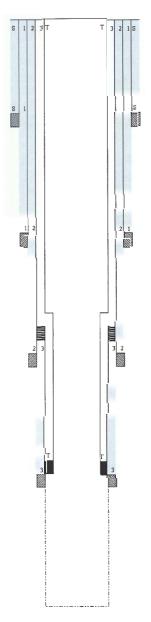
12.25"
9.625" - 40# L-80 & 40# HCL-80 BTC Casing
Surface
11770'
1996 sks - Lite Class C (60:40:0) + Additives
Surface - (Circulate)
4491'

Intermediate #3 - (Liner)

Hole Size:	8.5"
Casing:	7.625" - 39# HCL-80 FJ Casing
Depth Top:	11570'
Depth Btm:	17021'
Cement:	259 sks - Lite Class C (60:40:0) + Additives
Cement Top:	11570' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size:	6.5"
Depth:	18352'
Inj. Interval:	17021' - 18352' (Open-Hole Completion)



[ubing - (Tapered)

 Tubing Depth:
 13976'

 Tubing:
 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)

 X/O Depth:
 11570'

 X/O:
 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)

 Packer Depth:
 16986'

 Packer:
 5.5" - Perma-Pak or Equivalent (Inconel)

VI: There are no wells within the proposed wells area of review that penetrate the Devonian Formation.

VII:

- 1. The average injected volume anticipated is <u>40,000</u> BWPD The maximum injected volume anticipated is <u>50,000</u> BWPD
- 2. Injection will be through a closed system
- 3. The average injection pressure anticipated is <u>2,000</u> psi The proposed maximum injection pressure is <u>3,404</u> psi
- 4. Disposal Sources will be produced waters from surrounding wells in the Delaware, Avalon, Bone Spring and Wolfcamp formations. These formation waters are known to be compatible with Devonian formation water. Representative area produced water analyses were sourced from Go-Tech's website and are listed below.

WELL NAME	FIGHTING OKRA 18 FEDERAL COM #001H	SALADO DRAW 6 FEDERAL #001H	RATTLESNAKE 13 12 FEDERAL COM #001H	SNAPPING 2 STATE #014H
api	3002540382	3002541293	3002540912	3001542688
latitude	32.0435333	32.0657196	32.0369568	32.06555986
longitude	-103.5164566	-103.5146942	-103.416214	-103.7413815
section	18	6	13	2
township	265	265	265	26S
range	34E	34E	34E	31E
unit	E	М	Р	Р
ftgns	2590N	2005	3305	2505
ftgew	330W	875W	330E	330E
county	Lea	Lea	Lea	EDDY
state	NM	NM	NM	NM
formation	AVALON UPPER	BONE SPRING 3RD SAND	DELAWARE-BRUSHY CANYON	WOLFCAMP
sampledate	42046	41850	41850	42284
ph	8	6.6	6.2	7.3
tds_mgL	201455.9	99401.9	243517.1	81366.4
resistivity_ohm_cm	0.032	0.064	0.026	0.1004
sodium_mgL	66908.6	34493.3	73409.8	26319.4
calcium_mgL	9313	3295	15800	2687.4
iron_mgL	10	0.4	18.8	26.1
magnesium_mgL	1603	396.8	2869	326.7
manganese_mgL	1.6	0.37	3.12	
chloride_mgL	121072.7	59986.5	149966.2	50281.2
bicarbonate_mgL	1024.8	109.8	48.8	
sulfate_mgL	940	710	560	399.7
co2_mgL	1950	70	200	100

5. Devonian water analysis from the area of review is unavailable. Representative area water analyses were sourced from Go-Tech's website and are listed below.

WELL NAME	ANTELOPE RIDGE UNIT #003	BELL LAKE UNIT #006
api	3002521082	3002508483
latitude	32.2593155	32.3282585
longitude	-103.4610748	-103.507103
sec	34	6
township	235	235
range	34E	34E
unit	К	0
ftgns	19805	6605
ftgew	1650W	1980E
county	LEA	LEA
state	NM	NM
field	ANTELOPE RIDGE	BELL LAKE NORTH
formation	DEVONIAN	DEVONIAN
samplesource	UNKNOWN	HEATER TREATER
ph	6.9	7
tds_mgL	80187	71078
chloride_mgL	42200	47900
bicarbonate_mgL	500	476
sulfate_mgL	1000	900

VIII: Injection Zone Geology

Fluid injection will take place in the Devonian-Silurian formations. This sequence is bounded above by the Upper Devonian Woodford shale. Underlying the Woodford is the first injection formation, the Devonian, consisting of dolomitic carbonates & chert, followed by the Upper Silurian dolomites, and the Lower Silurian Fusselman dolomite. The lower bound of the injection interval is the limestone of the Upper Ordovician Montoya. This proposed well will TD above the top of the Montoya, and will not inject fluids into the Montoya itself, in order to provide a sufficient barrier to preclude fluid injection into the Middle Ordovician Simpson, the Lower Ordovician Ellenburger, the Cambrian, and the PreCambrian below.

Injection zone porosities are expected to range from 0% to a high of 8%, with the higher ranges being secondary porosity in the form of vugs & fractures due to weathering effects, with occasional interbedded shaly intervals. Permeabilities in the 2-3% porosity grainstone intervals are estimated to be in the 10-15 mD range, with the higher porosity intervals conservatively estimated to be in the 40-50 mD range. It is these intervals of high secondary porosity and associated high permeability that are expected to take the majority of the injected water.

The Devonian-Silurian sequence is well suited for SWD purposes, with a low permeability shale barrier overlying the injection interval to prevent upward fluid migrations to USDW's, sufficient permeabilities and porosities in zone, and multiple formations available over a large depth range. This large injection depth range means there is a large injection surface area available, allowing for low injection pressures at high injection rates. Permian Oilfield Partners, LLC. Deep Hole Federal SWD #1 1339' FSL, 250' FEL Sec. 19, T26S, R32E, Lea Co. NM Lat 32.0245011° N, Lon 103.7065713° W GL 3175', RKB 3205'

GEOLOGY PROGNOSISFORMATIONTOP KB TVD (ft)BOTTOM KB TVD (ft)THICKNESS (ft)Salt1,3454,2882,943										
FORMATION										
Salt	1,345	4,288	2,943							
Delaware	4,366	8,470	4,104							
Bone Spring	8,470	11,720	3,250							
Wolfcamp	11,720	12,645	925							
Lwr. Mississippian	16,477	16,842	365							
Woodford	16,842	16,986	144							
Devonian	16,986	17,970	984							
Fusselman (Silurian)	17,970	18,377	407							
Montoya (U. Ordovician)	18,377	19,047	670							
Simpson (M. Ordovician	19.047	19,725	678							

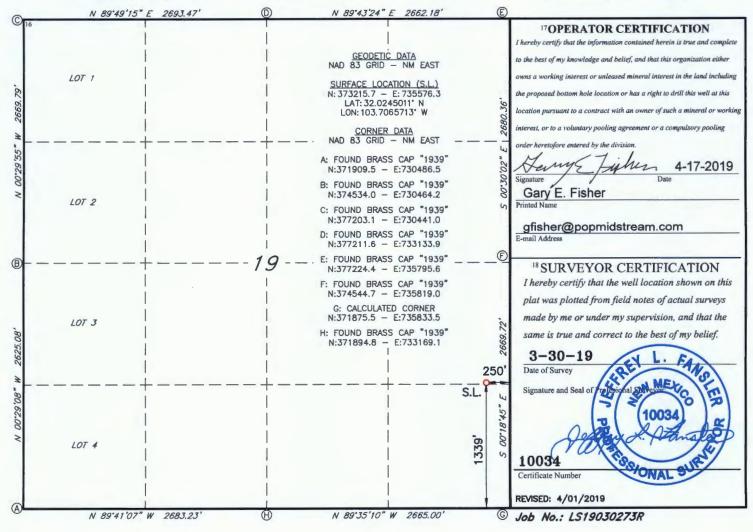
- 2. According to the New Mexico Office of the State Engineer, there are <u>NO</u> fresh water wells within the proposed well's one-mile area of review. Regionally, shallow fresh water is known to exist at depths less than <u>610'</u>. There are no underground sources of fresh water present below the injection interval.
- **IX:** Formation chemical stimulation with 40,000 gals of 15% Hydrochloric Acid is planned after well completion.
- X: A compensated neutron/gamma ray log will be run from surface to TD upon well completion. All logs will be submitted to the NMOCD upon completion.
- XI: According to the New Mexico Office of the State Engineer, there are <u>NO</u> fresh water wells within the proposed well's one-mile area of review. No samples were obtained.
- XII: Hydrologic affirmative statement attached.
- XIII: Proof of notice and proof of publication attached.

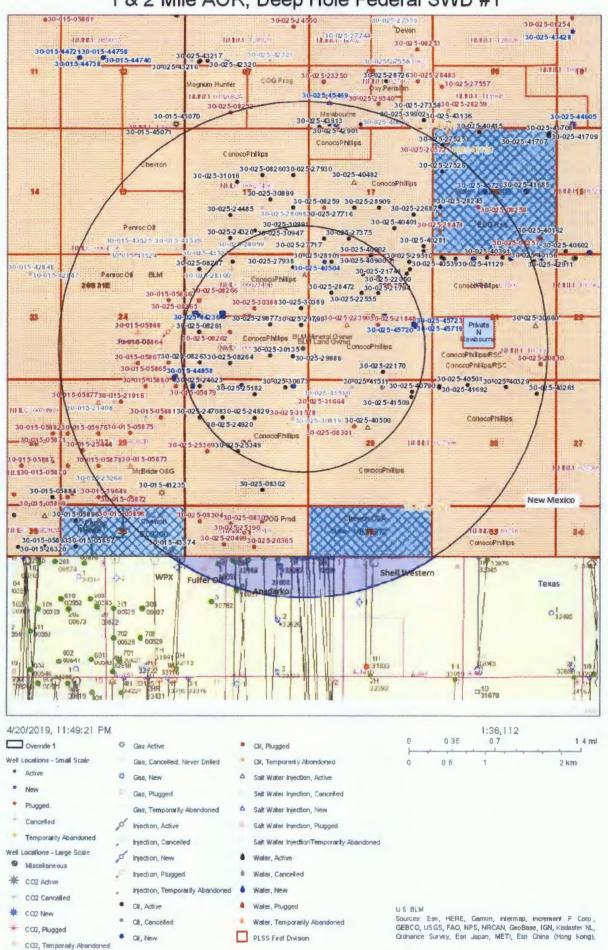
District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis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

30-0	API Number		2 Pool Code 3 Pool Name 97869 SWD; DEVONIAN-SILU						SILURIAN				
⁴ Property Co	ode			DEE	⁵ Property N. P HOLE FE	ame DERAL SWD	AL SWD 6 Well Number						
⁷ OGRID 3282	1		⁸ Operator Name PERMIAN OILFIELD PARTNERS, LLC										
_					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				
I	19	26S	32E		1339	SOUTH	250	EAST	LEA				
			11]	Bottom H	lole Location	If Different Fro	om Surface						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County				
Dedicated Acre	s 13 Joint	or Infill 14 (Consolidation	Code 15 (Order No.								

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





1 & 2 Mile AOR, Deep Hole Federal SWD #1

Pi Number	Current Operator	Well Name	Well Number	Well Type	Well Direction	SWD #1 - Wells within Well Status				OCD Unit Letter	Surface Location	Bottomhole Location	Formation M
25-08261	SAHARA OPERATING CO	RUSSELL 19 FEDERAL	#001	Oll	Vertical	Active	19	T265	R32E	L	L-19-265-32E Lot: 3 1980 FSL 660 FWL	L-19-265-32E Lot: 3 1980 FSL 660 FWL	DELAWARE 42
25-08262	QUAY VALLEY INC.	RUSSELL 19 FEDERAL	#002	Oil	Vertical	Plugged, Site Released	19	T265	R32E	K	K-19-265-32E 1980 FSL 1980 FWL	K-19-265-32E 1980 FSL 1980 FWL	DELAWARE 4
25-08263	SAHARA OPERATING CO	RUSSELL 19 FEDERAL	#003	Oil	Vertical	Active	19	T265	R32E	M	M-19-265-32E Lot: 4 660 FSL 660 FWL	M-19-265-32E Lot: 4 660 FSL 660 FWL	DELAWARE 43
5-08264	SAHARA OPERATING CO	RUSSELL 19 FEDERAL	#004	Oil	Vertical	Active	19	T265	R32E	N	N-19-265-32E 660 FSL 1980 FWL	N-19-265-32E 660 FSL 1980 FWL	DELAWARE 42
5-08265	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	19	T265	R32E	E	E-19-265-32E Lot: 2 1980 FNL 660 FWL	E-19-265-32E Lot: 2 0 FNL 660 FWL	DELAWARE 4
5-08266	QUAY VALLEY INC.	THOMPSON 19 FEDERAL	#002	Injection	Vertical	Plugged, Site Released	19	T265	R32E	F	F-19-265-32E 1980 FNL 660 FWL	F-19-265-32E 1980 FNL 1980 FWL	DELAWARE 4
6-08301	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	OH	Vertical	Plugged, Site Released	29	T26S	R32E	F	F-29-26S-32E 1980 FNL 1980 FWL	F-29-265-32E 1980 FNL 1980 FWL	DELAWARE 48
-21741	SAHARA OPERATING CO	RUSSELL FEDERAL	#001	Oil	Vertical	Active	20	T265	R32E	B	B-20-265-32E 995 FNL 2332 FEL	8-20-265-32E 995 FNL 2332 FEL	DELAWARE 4
-21794	SAHARA OPERATING CD	RUSSELL FEDERAL	#002	Oil	Vertical	Active	20	T265	R32E	F	F-20-265-32E 1655 FNL 2295 FWL	F-20-26S-32E 1655 FNL 2295 FWL	DELAWARE 4
-21848	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#003	Oil	Vertical	Plugged, Site Released	20	T265	R32E	J	J-20-265-32E 2341 FSL 2318 FEL	J-20-265-32E 2341 FSL 2318 FEL	DELAWARE 4
-22050	SAHARA OPERATING CO	RUSSELL FEDERAL	#004	Oil	Vertical	Active	20	T265	R32E	C	C-20-265-32E 865 FNL 2333 FWL	C-20-265-32E 865 FNL 2333 FWL	DELAWARE 4
-22170	SAHARA OPERATING CO	RUSSELL FEDERAL	#005	Oil	Vertical	Active	20	T265	R3ZE	0	0-20-265-32E 330 FSL 2112 FEL	0-20-265-32E 330 FSL 2112 FEL K-20-265-32E 2341 FSL 1659 FWL	DELAWARE 4
-22390	QUAY VALLEY INC.	RUSSELL FEDERAL	#006	Salt Water Disposal	Vertical	Plugged, Site Released	20	T265	R32E	K	K-20-265-32E 2341 FSL 1659 FWL G-20-265-32E 1666 FNL 2330 FEL	G-20-265-32E 2341 FSL 1659 FWL G-20-265-32E 1666 FNL 2330 FEL	DELAWARE 4
-22555	SAHARA OPERATING CO	RUSSELL FEDERAL	#007	Oil	Vertical	Active	20	T265	R32E R32E	D	D-30-265-32E Lot: 1 330 FNL 660 FWL	D-30-265-32E Lot: 1 330 FNL 660 FWL	DELAWARE 4
-24623	SAHARA OPERATING CO	RUSSELL 30 FEDERAL	#002	Oil	Vertical	Active	30 30	T265 T265	R32E	c	C-30-265-32E LOC 1 330 FNL 860 FWL	C-30-265-32E 10C 1 550 FNL 000 FWL	DELAWARE 4
-24723	SAHARA OPERATING CO	RUSSELL 30 FEDERAL								F	F-30-265-32E 1650 FNL 1650 FWL	F-30-265-32E 1650 FNL 1650 FWL	DELAWARE 4
-24829	SAHARA OPERATING CO	RUSSELL 30 FEDERAL	#005	Oil	Vertical	Active	30	T265	R32E	G	G-30-265-32E 1650 FNL 1650 FWL G-30-265-32E 1650 FNL 2310 FEL	G-30-265-32E 1650 FNL 250 FWL G-30-265-32E 1650 FNL 2310 FEL	DELAWARE 4
-24920	SAHARA OPERATING CO	RUSSELL 30 FEDERAL	#005	Oil	Vertical	Active	30	T265	R32E R32E	B	B-30-265-32E 1650 FNL 2310 FEL B-30-265-32E 660 FNL 2310 FEL	B-30-265-32E 1650 FNL 2310 FEL	DELAWARE 4
5-25182	SAHARA OPERATING CO	RUSSELL 30 FEDERAL								-	K-30-265-32E 2310 FSL 2310 FWL	K-30-265-32E 2310 FSL 2310 FWL	DELAWARE 5
-25349	SAHARA OPERATING CO	RUSSELL 30 FEDERAL	HOCB	Oil	Vertical	Active	30	T265	R32E R32E	K	N-17-265-32E 560 FSL 1720 FWL	N-17-265-32E 660 FSL 1720 FWL	DELAWARE 4
-27375	SAHARA OPERATING CO	RUSSELL 17 FEDERAL	#010	Oil	Vertical	Active	17	T26S T26S	R32E	N	M-17-265-32E 660 FSL 1720 FWL	M-17-265-32E 660 FSL 660 FWL	DELAWARE 4
-27717	SAHARA OPERATING CO	RUSSELL 17 FEDERAL	#011		Vertical	Active			R32E	M	A-19-265-32E 560 FNL 660 FEL	A-19-265-32E 560 FNL 660 FEL	DELAWARE 4
5-27938	SAHARA OPERATING CO	THOMPSON 19 FEDERAL	#004	Oil	Vertical	Active Cancelled Apd	19 18	T265	R32E	A 0	A-19-265-32E 560 FNL 660 FEL 0-18-265-32E 660 FSL 1830 FEL	0-18-265-32E 660 FSL 1830 FEL	DELAWARE 4
5-28099	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#007	Oil	Vertical	Cancelled Apd	18	T265	R32E R32E	c	C-19-265-32E 660 FSL 1830 FEL C-19-265-32E 660 FNL 2080 FWL	C-19-265-32E 660 FNL 2080 FWL	DELAWARE 4
5-28100	PRE-ONGARD WELL OPERATOR SAHARA OPERATING CO	PRE-ONGARD WELL RUSSELL FEDERAL	#009	Oil	Vertical	Active	20	T265	R32E	D	D-20-265-32E 330 FNL 990 FWL	D-20-265-32E 330 FNL 990 FWL	DELAWARE 4
5-28101	SAHARA OPERATING CO	RUSSELL FEDERAL	#009	Oil	Vertical	Active	20	T265	R32E	E	E-20-265-32E 350 FNL 990 FWL	E-20-265-32E 1650 FNL 990 FWL	DELAWARE 4
	SAHARA OPERATING CO							T265	R32E R32E	E	L-20-265-32E 2540 FSL 330 FWL	L-20-265-32E 2540 FSL 330 FWL	DELAWARE 4
5-29231		RUSSELL FEDERAL	#012	Oil	Vertical	Active	20			L			DELAWARE 4
5-29799	SAHARA OPERATING CO	CONOCO FEDERAL	#001	Oil	Vertical	Active	19	T265	R32E		I-19-265-32E 2310 FSL 330 FEL J-19-265-32E 2310 FSL 1662 FEL	I-19-265-32E 2310 FSL 330 FEL J-19-265-32E 2310 FSL 1662 FEL	DELAWARE 4
5-29877	SAHARA OPERATING CO	CONOCO FEDERAL	#002	Oil	Vertical	Active	19	T265	R32E	P	P-19-265-32E 2310 FSL 1662 FEL P-19-265-32E 990 FSL 660 FEL	P-19-265-32E 2910 FSL 1002 FEL	DELAWARE 4
5-29986	SAHARA OPERATING CO SAHARA OPERATING CO	CONOCO FEDERAL CONOCO FEDERAL	#003 #004	Oil	Vertical	Active	19 19	T265 T265	R32E R32E	0	0-19-265-32E 990 FSL 860 FEL	0-19-265-32E 990 FSL 1662 FEL	DELAWARE 4
5-30135					Vertical	Plugged, Site Released		T265		G	G-19-265-32E 2310 FNL 2310 FEL	G-19-265-32E 2310 FNL 2310 FEL	DELAWARE 6
5-30388	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Active	19 19	T265	R32E R32E	G H	H-19-265-32E 2310 FNL 2310 FEL	H-19-265-32E 2310 FNL 2310 FEL	DELAWARE 4
5-30389 5-30457	SAHARA OPERATING CO SAHARA OPERATING CO	CONOCO A FEDERAL CONOCO B FEDERAL	#002	Oil	Vertical	Active	20	T265	R32E	M	M-20-265-32E 2310 FNL 330 FEL M-20-265-32E 990 FSL 330 FWL	M-20-265-32E 990 FSL 330 FWL	DELAWARE 4
	SAHARA OPERATING CO	CONOCO A FEDERAL	#001	Oll	Vertical	Active	19	T265	R32E R32E	C	C-19-265-32E 330 FNL 2080 FWL	C-19-265-32E 330 FNL 2080 FWL	DELAWARE 4
25-30563	SAHARA OPERATING CO	CONOCO C FEDERAL	#003	Oil	Vertical	Active	30	T265	R32E	A	A-30-265-32E 330 FNL 2080 FWL	A-30-265-32E 330 FNL 2080 FWL	DELAWARE 4
	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Cancelled Apd	30	T265	R32E	н	H-30-265-32E 1650 FNL 660 FEL	H-30-265-32E 1650 FNL 560 FEL	DELAWARE 4
25-30819	SAHARA OPERATING CO	CONOCO D FEDERAL	#002	Oil	Vertical	Active	18	T265	R32E	P	P-18-265-32E 990 FSL 990 FEL	P-18-265-32E 1050 FRL 000 FEL	DELAWARE 4
25-30991	SAHARA OPERATING CO	CONOCO E FEDERAL	#003	Oil	Vertical		30	T265	R32E	н	H-30-265-32E 1650 FNL 660 FEL	H-30-265-32E 1650 FNL 660 FEL	DELAWARE 4
5-31528	DESERT STATES ENERGY INC	CONOCO FEDERAL 29	#001	Oil	Vertical	Plugged, Site Released Plugged, Site Released	29	T265	R32E	C	C-29-265-32E 660 FNL 1650 FWL	C-29-265-32E 660 FNL 1650 FWL	DELAWARE 4
25-40500	CONOCOPHILLIPS COMPANY	WILDER 29 FEDERAL SWD	#001	Salt Water Disposal	Vertical	Active	29	T265	R32E	F	F-29-265-32E 2010 FNL 2560 FWL	F-29-265-32E 2010 FNL 2560 FWL	DELAWARE 6
25-40500	CONOCOPHILLIPS COMPANY	BUCK 20 FEDERAL	#001 #003H	Oil	Horizontal	Active	29	T265	R32E	C C	C-20-265-32E 190 FNL 2575 FWL	N-20-265-32E 330 FSL 2310 FWL	BONE SPRING 13
25-40503	CONOCOPHILLIPS COMPANY	BUCK 20 FEDERAL	#005H	Oil	Horizontal	New	20	T265	R32E	D	D-20-265-32E 330 FNL 690 FWL	M-20-265-32E 330 FSL 690 FWL	BONE SPRING 13
25-40304	CONOCOPHILLIPS COMPANY	WILDER 29 FEDERAL	#DO4H #D01H	Oil	Horizontai	Active	29	T265	R32E	A	A-29-265-32E 524 FNL 849 FEL	P-29-265-32E 338 FSL 772 FEL	BONE SPRING 13
5-40900	CONOCOPHILLIPS COMPANY	BUCK 17 FEDERAL COM	#DO3H	01	Horizontal	Active	20	T265	R32E	B	B-20-265-32E 10 FNL 2625 FEL	C-17-265-32E 4977 FSL 3076 FEL	BONE SPRING 14
25-40901	CONOCOPHILLIPS COMPANY	BUCK 17 FEDERAL	#005H	Oil	Horizontal	Expired Temporary Abandonment	17	T265	R32E	0	0-17-265-32E 28 FSL 2604 FEL	B-17-265-32E 291 FNL 2367 FEL	BONE SPRING 13
5-40902	CONOCOPHILLIPS COMPANY	BUCK 20 FEDERAL	#006H	Oll	Horizontal	Active	20	T265	R32E	c	C-20-265-32E 55 FNL 2659 FEL	0-20-265-32E 343 FSL 2285 FEL	BONE SPRING 13
25-41509	CONOCOPHILLIPS COMPANY	WILDER 29 FEDERAL	#OC5H	Oil	Horizontal	Active	29	T265	R32E	A	A-29-265-32E 724 FNL 877 FEL	P-29-265-32E 281 FSL 331 FEL	BONE SPRING 13
25-41510	CONOCOPHILLIPS COMPANY	WILDER 29 FEDERAL	#003H	Oil	Horizontal	Cancalied And	29	T265	R32E	C	C-29-265-32E 330 FNL 1875 FWL	N-29-265-32E 330 FSL 1875 FWL	BONE SPRING 13
5-41510	CONOCOPHILLIPS COMPANY	WILDER 29 FEDERAL	#003H	Oil	Horizontal	Active	29	T265	R32E	B	8-29-265-32E 330 FNL 2116 FEL	0-29-265-32E 274 FSL 1694 FEL	BONE SPRING 13
5-41512	CONOCOPHILLIPS COMPANY	WILDER 29 FEDERAL	#006H	Oil	Horizontal	Cancelled Apd	29	T265	R32E	B	8-29-265-32E 330 FNL 2066 FEL	0-29-265-32E 330 FSL 2066 FEL	BONE SPRING 13
5-42674	CONOCOPHILLIPS COMPANY	BUCK 30 FEDERAL COM W1	#005H	Oil	Horizontal	New	30	T265	R32E	C	C-30-265-32E 250 FNL 2464 FWL	C-31-265-32E 50 FSL 1700 FWL	WOLFCAMP 19
5-42675	CONOCOPHILLIPS COMPANY	BUCK 30 FEDERAL COM W1	#006H	Oil	Horizontal	New	30	T265	R32E	c	C-30-265-32E 283 FNL 2464 FWL	F-31-265-32E Lot: 3 50 FSL 2360 FWL	WOLFCAMP 19
5-42676	CONOCOPHILLIPS COMPANY	BUCK 30 FEDERAL COM W1	#009H	Oll	Horizontal	New	30	T265	R32E	A	A-30-265-32E 260 FNL 665 FEL	H-31-265-32E Lot: 5 50 FSL 1058 FEL	WOLFCAMP 19
5-42677	CONOCOPHILLIPS COMPANY	BUCK 30 FEDERAL COM W1	#010H	Oil	Horizontal	New	30	T265	R32E	A	A-30-265-32E 260 FNL 632 FEL	H-31-265-32E Lot: 5 50 FSL 448 FEL	WOLFCAMP 15
5-42745	CONOCOPHILLIPS COMPANY	BUCK 30 FEDERAL COM W1	#003H	Oil	Horizontal	New	30	T265	R32E	D	D-30-265-32E Lot: 1 316 FNL 365 FWL	E-31-265-32E Lot: 2 330 FSL 380 FWL	WOLFCAMP 18
5-42745	CONOCOPHILLIPS COMPANY	BUCK 30 FEDERAL COM W1	#003H	Oil	Horizontal	New	30	T265	R32E	D	D-30-265-32E Lot: 1 349 FNL 365 FWL	E-31-265-32E Lot: 2 330 FSL 1040 FWL	WOLFCAMP 18
5-42747	CONOCOPHILLIPS COMPANY	BUCK 30 FEDERAL COM W2	#002H	Oil	Horizontal	New	30	T265	R32E	D	D-30-265-32E Lot: 1 283 FNL 365 FWL	E-31-265-32E Lot: 2 331 FSL 380 FWL	WOLFCAMP 18
5-42748	CONOCOPHILLIPS COMPANY	BUCK 30FEDERAL COM W2	#001H	Oil	Horizontal	New	30	1265	R32E	D	D-30-265-32E Lot: 1 250 FNL 365 FWL	E-31-265-32E Lot: 2 332 FSL 380 FWL	WOLFCAMP 19
5-44215	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#101H	Oil	Horizontal	New	19	T265	R32E	E	E-19-265-32E Lot: 2 2487 FNL 430 FWL	D-18-265-32E Lot: 1 50 FNL 1 FWL	WOLFCAMP 22
5-44216	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#102H	Oil	Horizontal	New	19	T265	R32E	E	E-19-265-32E Lot 2 2487 FNL 453 FWL	L-07-265-32E Lot: 3 2617 FSL 330 FWL	WOLFCAMP 22
5-44217	CONDCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#103H	OII	Horizontal	New	19	T265	R32E	E	E-19-265-32E Lot: 2 2487 FNL 496 FWL	L-07-265-32E Lot: 3 2617 FSL 660 FWL	WOLFCAMP 22
5-44218	CONDCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#104H	Oil	Horizontal	New	19	T265	R32E	F	E-19-265-32E Lot 2 2487 FNL 529 FWL	L-07-265-32E Lot: 3 2618 FSL 990 FWL	WOLFCAMP 2
25-44219	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#105H	Oil	Horizontal	New	19	T265	R32E	E	E-19-265-32E Lot 2 2627 FNL 430 FWL	E-31-26S-32E Lot: 2 50 FSL 1 FWL	WOLFCAMP 21
	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#105H #106H	Oil	Horizontal	New	19	T265	R32E	E	E-19-265-32E Lot 2 2627 FNL 450 FWL E-19-265-32E Lot 2 2627 FNL 463 FWL	E-31-265-32E Lot: 2 50 FSL 330 FWL	WOLFCAMP 21
25-44722		ZIA HILLS 19 FEDERAL COM	#107H	Oil	Horizontal	New	19	T265	R32E	E	E-19-265-32E Lot: 2 2627 FNL 496 FWL	E-31-265-32E Lot: 2 50 FSL 660 FWL	WOLFCAMP 2
25-44233	CONDCOPHILLIPS COMPANY												

			7	Deer Ho	le Federal S	WD #1 - Walis with	hin 1 M	le Are	aof	eview (Page Z OI Z)		
-025-44235	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#108H	Oil	Horizontal	New	19	T265	R32E	٤	E-19-265-32E Lot: 2 2627 FNL 529 FWI-	E-31-265-32E Lot: 2 50 FSL 990 FWL	WOLFCAMP 21701 11
0-025-44236	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#109H	Cil	Horizontal	New	19	T265	R32E	F	F-19-26S-32E 2498 FNL 1600 FWL	L-07-26:-32E Lot: 3 2618 FSL 132 7 FWL	WOLFCAMP 22124 110
0-025-44237	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#110H	Oil	Horizontal	New	19	T265	R32E	F	F-19-265-32E 2498 FNL 1633 FWL	K-07-265-32E 2618 FSL 1650 FI VL	WOLFCAMP 22123 116
0-025-44238	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#111H	Oil	Horizontal	New	19	T265	R32E	F	F-19-265-32E 2498 FNL 1666 FWL	K-07-265-32E 2618 FSL 1980 FLVL	WOLFCAMP 22137 116
025-44239	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#112H	Oil	Horizontal	New	19	T265	R32E	F	F-19-265-32E 2498 FNL 1699 FWL	K-07-265-32E 2618 FSL 2310 FWL	WOLFCAMP 22167 11
025-44240	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#113H	0H	Horizontal	New	19	T265	R32E	F	F-19-26S-32E 2638 FNL 1600 FWL	F-31-265-32E Lot: 3 50 FiL 1320 FWL	WOLFCAMP 22157 11
025-44241	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#115H	Oil	Horizontal	New	19	T265	R32E	F	F-19-265-32E 2638 FNL 1666 FWL	F-31-265-32E Lot: 3 50 F1 1980 FWL	WOLFCAMP 22151 11
025-44242	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#116H	011	Horitontal	New	19	T265	R32E	F	F-19-265-32E 2638 FNL 1699 FWL	F-31-2(5-32E Lo t: 3 50FSL 2310 FW/L	WOLFCAMP 22170 11
025-44247	CONOCOPHILLIPS COMPANY	ZIA HILLS 19 FEDERAL COM	#114H	Oil	Horiontal	New	19	T265	R32E	F	F-19-265-32E 2638 FNL 1633 FWL	F-31-215-32E Lo t: 3 50 FSL 1650 FW/L	WOLFCAMP 22146 11
025-45711	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#101H	OII	Horiontal	New	20	T26S	R32E	G	G-20-26S-32E 2637 FNL 2100 FEL	B-17-26C-2215 50 FN 2640 FEL	WOLFCAMP 19375 11
025-45712	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#102H	Oil	Horizontal	New	20	T265	R32F	G	G-20-26S-32E 2637 FNL 2067 FEL	8-17-265-32E 50 FNL 2310 FEL	WOLFCAMP 19513 11
025-45713	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#103H	Oil	Horizontal	New	20	T26S	R32E	G	G-20-26S-32E 2636 FNL 2034 FEL	B-17-26-32E 5 0 FNL 1980 FEL	WOLFCAMP 19513 11
025-45714	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#104H	Oil	Horizontal	New	20	T26S	R32E	G	C 20 200 220 2027 040, 2006 000	B-17-26-32E 5 D FNL 1650 FEL	WOLFCAMP 19517 11
025-45715	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#105H	Oil	Horizontal	New	20	T265	R32E	J	J-20-26S-32E 2570 FSL 2100 FEL	G-32-26S-3 E Lot: 2 50 FSL 2310 FEL	WOLFCAMP 21649 11
025-45716	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#107H	Oil	Horizontal	New	20	1265	R32E	L	J-20-26S-32E 2570 FSL 2034 FEL	G-32-265-32E Lot: 2 50 FSL 1980 FEL	WOLFCAMP 21720 11
025-45717	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#108H	Oil	Horizontal	New	20	T265	R32E	1	J-2D-26S-32E 2570 FSL 2001 FEL	G-32-265-32E Lot: 2 50 FSL 1650 FEL	WOLFCAMP 21668 11
-025-45718	CONOCOPHILLIPS COMPANY	ZIA HILLS 28 FEDERAL COM	#109H	Oil	Horizontal	New	20	T26S	R32E	1	I-20-265-32E 2410 FSL 800 FEL	A-17-265-32E 50 FNL 1320 FEL	WOLFCAMP 19393 11
-025-45719	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#110H	Oil	Horizontal	New	20	T26S	R32E	1	I-20-265-32E 2410 FSL 767 FEL	A-17-26S-32E 50 FNL 990 FEL	WOLFCAMP 19590 11
-25-45720	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#111H	Oil	Horizontal	New	20	T265	R32E	1	I-20-26S-32E 2410 FSL 734 FEL	A-17-265-32E 50 FNL 660 FEL	WOLFCAMP 19382 11
-025-45721	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#112H	Oil	Horizontal	New	20	T26S	R32E	1	I-20-26S-32E 2410 F5L 701 FEL	A-17-265-32E 50 FNL 330 FEL	WOLFCAMP 19546 11
-025-45722	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#113H	Oil	Horizontal	New	20	T265	R32E		1-20-265-32E 2270 FSL 800 FEL	H-32-265-32E Lot: 1 50 FSL 1320 FEL	WOLFCAMP 21668 11
0-025-45723	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#114H	Oil	Horizontal	New	20	T26S	R32E	1	I-20-26S-32E 2270 FSL 767 FEL	H-32-265-32E Lot: 1 50 FSL 990 FEL	WOLFCAMP 21501 11
0-025-45724	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#115H	Oil	Horizontal	New	20	T26S	R32E	t I	1-20-265-32E 2270 F5L 734 FEL	H-32-265-32E Lot: 1 50 FSL 660 FEL	WOLFCAMP 21643 11
0-025-45725	CONOCOPHILLIPS COMPANY	ZIA HILLS 20 FEDERAL COM	#116H	Oil	Horizontal	New	20	T265	R32E	1	I-20-265-32E 2270 FSL 701 FEL	H-32-265-32E Lot: 1 50 FSL 330 FEL	WOLFCAMP 21515 11



Statement of Notifications

Re: C-108 Application for SWD Well Permian Oilfield Partners, LLC Deep Hole Federal SWD #1 Sec. 19, Twp. 26S, Rge. 32E 1339' FSL, 250' FEL Lea County, NM

Permian Oilfield Partners, LLC has mailed notifications to offset operators, mineral owners, lessees and the surface owner as per the following list:

Deep Hole Federal SWD #1 - Affected Persons within 1 Mile Area of Review												
Notified Name	Notifed Address	Notified City, State, ZIP Code	Shipper	Tracking No.	Mailing Date							
Sahara Operating Co	P.O. Box 4130	Midland, TX 79704	USPS	9414811899561824254654	4/26/2019							
Quay Valley Inc.	P.O. Box 10280	Midland, TX 79702	USPS	9414811899561824254937	4/26/2019							
Desert States Energy Inc	125 E Baja	Hobbs, NM 88240	USPS	9414811899561824254784	4/26/2019							
ConocoPhillips Company	P.O.Box 2197 Office EC3-10-W285	Houston, Tx 77252	USPS	9414811899561824254746	4/26/2019							
Bureau Of Land Management	620 E Greene St	Carlsbad, NMA88220	USPS	9414811899561824254722	4/26/2019							
New Mexico State Land Office	2827 N Dal Paso St Suite 117	Hobbs, NM 88240	USPS	9414811899561824254968	4/26/2019							
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899561824254777	4/26/2019							
Penroc Oil Corp	1515 W Calle Sur St	Hobbs, NN 88240	USPS	9414811899561824254906	4/26/2019							
McBride Oil & Gas Corp	400 N Pennsylvania Ave # 1200	Roswell, NM. 882()1	USPS	9414811899561824254739	4/26/2019							

Semtin

Sean Puryear Permian Oilfield Partners, LLC spuryear@popmidstream.com

Date: 4-26-2019

U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 1824 2546 54

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Sahara Operating Co. PO Box 4130 Midland TX 79704-4130

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ARTICLE ADDRESSED TO:

Quay Valley Inc. PO Box 10280 Midland TX 79702-7280

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ARTICLE ADDRESSED TO:

Desert States Energy Inc. 125 E. Baja Dr Hobbs NM 88240-3408

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26 2019

ARTICLE NUMBER: 9414 8118 9956 1824 2547 22

ARTICLE ADDRESSED TO:

Bureau of Land Management 620 E Greene St Carlsbad NM 88220-6292

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ARTICLE NUMBER: 9414 8118 9956 1824 2547 46

ARTICLE ADDRESSED TO:

ConocoPhillips Company PO Box 2197 Houston TX 77252-2197

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ARTICLE NUMBER: 9414 8118 9956 1824 2549 66

ARTICLE ADDRESSED TO:

New Mexico State Land Office 2827 N Dal Paso St. Suite 117 Hobbs NM 88240-2062

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New Mexico State Land Office 310 Old Santa Fe Trail Santa Fe NM 87501-2708

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Penroc Oil Corp 1515 W. Calle Sur Street Ste 101 Hobbs NM 88240-1318

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ARTICLE ADDRESSED TO:

McBride Oil & Gas Corp. 400 N. Penn Ave Suite 1200 Roswell NM 88201-4782

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Certified Fee	3.50	En	
Total Postage & Fees:	6.70	Postmark	
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		0	
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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, 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 April 25, 2019 and ending with the issue dated April 25, 2019.

Sworn and subscribed to before me this 25th day of April 2019.

Black

Business Manager



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

LEGAL NOTICE APRIL 25, 2019

Newspaper Publication Notice

Notice Permian Oilfield Partners, LLC, PO Box 1220, Stephenville, TX 76401, phone (817)606-7630, attention Gary Fisher, has filed form C-108 (Application for Authorization for Injection) with the New Mexico Oil Conservation Division Seeking approval to drill a commercial salt water disposal well in Lea County, New Mexico. The well name is the Deep Hole Federal SWD #1, and is located 1339'FSL & 250'FEL, Unit Letter I, Section 19, Township 26 South, Range 32 East, NMPM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 17,021 feet to 18,352 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 3,404 pal.

Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505 within 15 days. #34077

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GARY FISHER PERMIAN OILFIELD PARTNERS, LLC PO BOX 1220 STEPHENVILLE, TX 76401 Deep Hole Federal SWD #1 - Water Wells within 1 Mile AOR

SWNE (G)	SENE (H)	L2	SENW (F)	SWNE (G)	SENE (H)	SWNW (E)	SENW (F)	SWNE (G)	SENE (H)	SWNW (E)	SENVA
NWSE (J)	NESE (1) 13	L3	NESW (K) 1	NWSE (J)	NESE (1)	NWSW (L)	NESW (K) 1	NWSE (J) 7	NESE (I)	NWSW (L) 18	NE\$W (K)
SWSE (0)	SESE (P)	L4	SESW (N)	SWSE (0)	SESE (P)	SWSW (M)	SESW (N)	SWSE (0)	SESE (P)	SWSW (M)	SESW (N)
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SWNE (G)	SENE (H)	L2	SENW (F)	SWNE (G)	SENE (H)	SWNW (E)	SENW (F)	SWNE (G)	SENE (H)	SWNW (E)	SENW (F)
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SWSE (0)	265 31E SESE (P)	L4	SESW (N)	SWSE (0)	SESE (P)	2 63 32E SWSW (M)	SESW (N)	SWSE (0)	SESE (P)	SWSW (M)	SESW (N)
NWNE (B)	NENE (A)	L1	NENW (C)	NWNE (B)	NENE (A)	NWNW (D)	NENW (C)	NWNE (B)	NENE (A)	NWNW (D)	NENW (C)
SWNE (G)	SENE (H)	L2	SENW (F)	SWNE (G)	SENE (H)	SWNW (E)	SENW (F)	SWINE (G)	SENE (H)	(E)	SENW (F)
NWSE (J)	NESE (1)	L3	NESW (K)	NWSE (J)	NESE (I)	NWSW (L)	NESW (HT)	NWSE (J)	NESE (1)	NWSW (L)	NESW (K)
swse ¹ (0)	SESE (P)	L4	SESW (N)	SWSE (0)	SESE (P)	SWSW (M)	SESW (N)	SWSE (0)	SESE (P)	SWSW (M)	SESW (N)
	36 NENE	L1	NENW (C) 3		NENE (Å)	NWNW (D)	NENW (C) 3	Z NWNE (B)	NENE (A)	NWNW 33	NENVA (C)

4/17/2019, 10:46:31 AM

Override 1

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PLSS First Division

PLSS Second Division

PLSS Townships

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User

1:18,056

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1.1 km

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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	(R=POD replaced, O=orpha C=the fil	ned,		larte	ers a	are	1=NV	V 2=NI	E 3=SW	(4=SE)				
water right file.)	closed)		(qı	larte	ers a	are	smalle	est to la	argest)	(NAD8	3 UTM in meter	rs) (Ir	n feet)	
		POD		0	0	~								17.4
POD Number	Code	Sub- basin	County		Q 16			Twe	Rno	x	Y	DepthWellDepth		Vater
<u>C 02373</u>	Cout	CUB	LE	01		1	32	24S	34E	641979	3560916*	600		
<u>C 02386</u>		CUB	LE	4	1	2	04	24S	34E	643962	3569290*	575	475	100
<u>C 02387</u>		CUB	LE			1	11	24S	34E	646513	3567613*	62	40	22
<u>C 02397</u>		CUB	LE	4	1	2	04	24S	34E	643962	3569290*	575	475	100
C 03932 POD13		CUB	LE	4	2	3	15	24S	34E	645314	3565203	90		
<u>C 03932 POD3</u>		CUB	LE	4	3	2	05	24S	34E	642442	3568787	100		
C 03932 POD8		CUB	LE	4	2	4	07	24S	34E	641120	3566769	72		
<u>C 03943 POD1</u>		CUB	LE	2	4	2	21	24S	34E	644523	3564266	610	431	179
<u>C 04014 POD1</u>		CUB	LE	1	1	3	06	24S	34E	639811	3568638	91	81	10
										1	Average Depth t	to Water:	300 fee	et
											Minim	um Depth:	40 fee	et
											Maximu	um Depth:	475 fee	et

Record Count: 9

PLSS Search:

Township: 24S Range: 34E

*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, concerting the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/22/19 2:04 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Item XII. Affirmative Statement

Re: C-108 Application for SWD Well Permian Oilfield Partners, LLC Deep Hole Federal SWD #1 Sec. 19, Twp. 26S, Rge. 32E 1339' FSL, 250' FEL Lea County, NM

Permian Oilfield Partners, LLC. has 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.

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Gary Fisher Manager Permian Oilfield Partners, LLC.

Date: 4/25/2019

Plugging Risk Assessment Permian Oilfield Partners, LLC. Deep Hole Federal SWD #1 SL: 1339' FSL & 250' FEL Sec 19, T26S, R32E Lea County, New Mexico

> Plugging Risk Assessment Page 1

WELLBORE SCHEMATIC Permian Olifield Partners, LLC. Deep Hole Federal SWD #1 1339' FSL, 250' FEL Sec. 19, T26S, R32E, Lea Co. NM Lat 32.0245011° N, Lon 103.7065713° W GL 3175', RKB 3205'

Surface - (Conventional)

Hole Size:26"Casing:20" - 94# H-40 STC CasingDepth Top:SurfaceDepth Btm:963'Cement:624 sks - Class C + AdditivesCement Top:Surface - (Circulate)

Intermediate #1 - (Conventional)

 Hole Size:
 17.5"

 Casing:
 13.375" - 54.5# J-55 & 61# J-55 STC Casing

 Depth Top:
 Surface

 Depth Btm:
 4391'

 Cement:
 1466 sks - Lite Class C (50:50:10) + Additives

 Cement Top:
 Surface - (Circulate)

intermediate #2 - (Conventional)

 Hole Size:
 12.25"

 Casing:
 9.625" - 40# L-80 & 40# HCL-80 BTC Casing

 Depth Top:
 Surface

 Depth Btm:
 11770'

 Cement:
 1996 sks - Lite Class C (60:40:0) + Additives

 Cement Top:
 Surface - (Circulate)

 ECP/DV Tool:
 4491'

Intermediate #3 - (Liner)

 Hole Size:
 8.5"

 Casing:
 7.625" - 39# HCL-80 FJ Casing

 Depth Top:
 11570'

 Depth Btm:
 17021'

 Cement:
 259 sks - Lite Class C (60:40:0) + Additives

 Cement Top:
 11570' - (Volumetric)

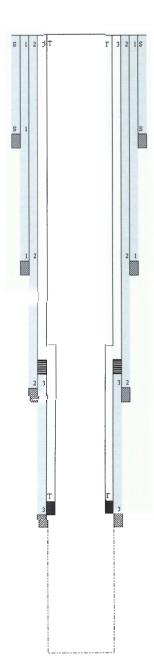
Intermediate #4 - (Open Hole)

 Hole Size:
 6.5"

 Depth:
 18352'

 Inj. Interval:
 17021' - 18352' (Open-Hole Completion)

Tubing: -(Taplered) Tubing: Depth: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined) X/O Depth: 11570' X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined) Packer Depth: 16986' Packer: 5.5" - Perma-Pak or Equivalent (Inconel) Plugging RISK Assessment



7" UFJ Tubing Inside of 9 5/8" 40# Casing

Bowen Series 150 Releasing and Circulation Overshots Maximum Catch Size 6%" to 7%" Inclusive

Maximum Calch Size (Spiral)		65%	6%	7	7%
Maximum Calch Size (Baabet)		5%	6%	6%	85%
Overshot O.D.		834	7%	8%	89%
Туре		F.S.	S.H.	S.H.	S.H.
Complete Assembly	Part No.	C-3032	C-5222	9217	C-5354
(Oressed Spiral Parts)	Weight	280	243	251	260
Replacement Partz					
Top Sub	Part No.	A-3033	A-5223	9218	A-5355
Bowl	Part No.	B-3034	B-5224	9219	8-5358
Packer	Part No.	A-1814	B-5225	9224	B-5357
Spiral Grapple	Part No.	N-84	B-5227	9222	B-5359
Spiral Grapple Control	Part No.	M-89	A-5228	9223	B-5360
Standard Guide	Part No.	A-1818	A-5229	9226	A-5361
Baakel Parts					
Basket Grapple	Part No.	N-84	B-5227	9222	B-5359
Basket Grapple Control	Part No.	M-89	A-5228	9223	B-5360
Mill Control Packer	Part No.	A-1814-R	8-5225-R	9224-R	8-5357-R

A 6.375" O.D. Bowen Series 150 Overshot will be used to perform this overshot operation. Details on the overshot are listed above. Casing to tubing clearance dimensions are listed below.

	7" 26# FJ Casing Inside 9.625" 40# BTC Casing													
Clearance (in)	Pipe Size (in)	Weight lb/ft	Grade	Conn.	Туре	Body O.D. (in)	Coupling O.D. (in)	I.D. (in)	Drift (in)	Lined Wt. lb/ft		Flare I.D. (in)	Lined Drift (in)	
0.040	9 5/8	40.0	L-80	BTC	Casing	9.625	10.625	8.835	8.679	-	-	-	-	
0.840	7	26.0	HCP-110	FJ	Casing	7.000	7,000	6.276	6.151	28.500	6.080	5.940	5.815	

*Red Indicates Tubing

Fishing Procedure

Overshot Fishing Procedure

In the Event of a Connection Break

- If fishing neck is clean

- 1. Trip in hole with overshot and engage fish.
- 2. Pick up 2 points over neutral weight.
- 3. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
- 4. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

- If dressing fishing neck is required

- 1. Trip in hole with mill and dress fishing neck to allow for overshot to engage tubing.
- 2. Trip out of hole with mill.
- 3. Trip in hole with overshot and engage fish.
- 4. Pick up 2 points over neutral weight.
- 5. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
- 6. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

In the Event of a Body Break

- If fishing neck is clean
- 1. Trip in hole with overshot and engage fish.
- 2. Pick up 2 points over neutral weight.
- 3. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
- 4. Once released from packer, trip out of hole with fish.

- If dressing fishing neck is required

- 1. Trip in hole with mill and dress fishing neck to allow for overshot to engage tubing.
- 2. Trip out of hole with mill.
- 3. Trip in hole with overshot and engage fish.
- 4. Pick up 2 points over neutral weight.

Plugging Risk Assessment

- 5. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
- 6. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

Spear Fishing Procedure

If an overshot cannot be used to retrieve the fish, a spear may be used.

- Due to the use of insert lined tubing, the composite liner must be removed from the tubing before engaging the fish with a spear.
- 1. Trip in hole with spear sized to engage the I.D. of the insert liner.
- 2. Engage the insert liner inside the tubing with spear.
- 3. Pull the insert liner out of the tubing.
- 4. Trip out of hole with insert liner.
- 5. Trip in hole with spear sized to engage the I.D. of the tubing.
- 6. Engage the tubing with spear.
- 7. Pick up 2 points over neutral weight.
- 8. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
- 9. Once released from packer, trip out of hole with fish.

Inside Diameter Cutting Tool Fishing Procedure

If an overshot is required but a mill cannot be used to dress off a fishing neck, an inside diameter cutting tool may be used.

- Due to the use of insert lined tubing, the composite liner must be removed from the tubing before engaging the fish with a spear.
- 1. Trip in hole with spear sized to engage the I.D. of the insert liner.
- 2. Engage the insert liner inside the tubing with spear.
- 3. Pull the insert liner out of the tubing.
- 4. Trip out of hole with insert liner.
- 5. Trip in hole with inside diameter cutting tool and cut the tubing below the damaged fishing neck.
- 6. Trip out hole with cutting tool.
- 7. Trip in hole with spear sized to engage the I.D. of the tubing.
- 8. Engage the previously cut tubing segment with spear.
- 9. Trip out hole with cut tubing segment and spear.
- 10. Trip in hole with overshot and engage fish.
- 11. Pick up 2 points over neutral weight.
- 12. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
- 13. Once released from packer, trip out of hole with fish.

Plugging Risk Assessment

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5 1/2" UFJ Tubing Inside of 7 5/8" 39# Casing

Series 150 Overshots

Tools are listed in order of maximum catch size.

The following table shows only a partial listing of available NOV Dowhole Bowen* overshots.

NOTE: Nitralloy Grappies are available upon request.

Bowen Series 150 Releasing and Circulation Overshots Miximum Catch Size 4%" to 5%" Inclusive

reserve to the manual desire and by date								
Maximum Gatch Size (Spiral)		4%	4%	4%	4%	5	5	5%
Maximum Calch Size (Baakel)		3%	4%	4x	4%	4%	4%	435
Overshat 0.0.		5%s	5%	5%	5%	5%	8%	8%
Type		ES.	S.H.	S.H.	S.F.S.	S.H.	ES.	S.H.
Complete Assembly	Part No.	5896	5698	C-5188	8975	C-5171	G-4825	8625
(Dressed Spiral Parts)	Weight	130	130	133	138	140	192	185
Replacement Parts								
Top Sab	Part No.	5897	5899	A-5169	8976	A-5172	B-4828	8628
Bawri	Part No.	5898	5700	8-5170	3977	B-5173	B-4827	8617
Packer	Part No.	109	1140	B-2199	0114	L-5950	L-4505	8518
Spiral Grapple	Part No.	105	1135	B-2201	6112	B-4369	M-1071	8619
Spiral Grapple Control	Part No.	188	1137	B-2202	8113	B-4370	M-1072	8620
Slandard Guide	Part Ne.	187	1143	B-2203	8121	B-4371	L-1074	8621
Bassiet Parts								
Baskel Grapple	Part No.	165	1135	B-2201	6112	8-4369	M-1071	8619
Basket Grappie Control	Part No.	188	1137	B-2202	6113	B-4370	M-1072	8820
Mill Control Packer	Part No.	180-R	1140-R	B-2190-R	6114-R	L-5950-R	M-4505	L-8618-F

A (6.625" turned down to **6.500**" O.D.) Bowen Series 150 Overshot will be used to perform this overshot operation. Details on the overshot are listed above. Casing to tubing clearance dimensions are listed below.

	5.5" 17# FJ Casing Inside 7.625" 39# FJ Casing													
Clearance (in)	Pipe Size (in)	Weight lb/ft	Grade	Conn.	Туре		Coupling O.D. (in)	I.D. (in)	Drift (in)	Lined Wt. lb/ft		Flare I.D. (in)	Lined Drift (in)	
0.500	7 5/8	39.0	HCL-80	FJ	Casing	7.625	7.625	6.625	6.500	-	-	-	-	
0.500	5 1/2	17.0	HCL-80	FJ	Casing	5.500	5.500	4.892	4.767	18.500	4.520	4.400	4.275	

*Red Indicates Tubing

Fishing Procedure

Overshot Fishing Procedure

In the Event of a Connection Break

- If fishing neck is clean

- 1. Trip in hole with overshot and engage fish.
- 2. Pick up 2 points over neutral weight.
- 3. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
- 4. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

- If dressing fishing neck is required

- 1. Trip in hole with mill and dress fishing neck to allow for overshot to engage tubing.
- 2. Trip out of hole with mill.
- 3. Trip in hole with overshot and engage fish.
- 4. Pick up 2 points over neutral weight.
- 5. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
- 6. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

In the Event of a Body Break

- If fishing neck is clean

- 1. Trip in hole with overshot and engage fish.
- 2. Pick up 2 points over neutral weight.
- 3. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
- 4. Once released from packer, trip out of hole with fish.

- If dressing fishing neck is required

- 1. Trip in hole with mill and dress fishing neck to allow for overshot to engage tubing.
- 2. Trip out of hole with mill.
- 3. Trip in hole with overshot and engage fish.
- 4. Pick up 2 points over neutral weight.

Plugging Risk Assessment

- 5. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
- 6. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

Spear Fishing Procedure

If an overshot cannot be used to retrieve the fish, a spear may be used.

- Due to the use of insert lined tubing, the composite liner must be removed from the tubing before engaging the fish with a spear.
- 1. Trip in hole with spear sized to engage the I.D. of the insert liner.
- 2. Engage the insert liner inside the tubing with spear.
- 3. Pull the insert liner out of the tubing.
- 4. Trip out of hole with insert liner.
- 5. Trip in hole with spear sized to engage the I.D. of the tubing.
- 6. Engage the tubing with spear.
- 7. Pick up 2 points over neutral weight.
- 8. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
- 9. Once released from packer, trip out of hole with fish.

Inside Diameter Cutting Tool Fishing Procedure

If an overshot is required but a mill cannot be used to dress off a fishing neck, an inside diameter cutting tool may be used.

- Due to the use of insert lined tubing, the composite liner must be removed from the tubing before engaging the fish with a spear.
- 1. Trip in hole with spear sized to engage the I.D. of the insert liner.
- 2. Engage the insert liner inside the tubing with spear.
- 3. Pull the insert liner out of the tubing.
- 4. Trip out of hole with insert liner.
- 5. Trip in hole with inside diameter cutting tool and cut the tubing below the damaged fishing neck.
- 6. Trip out hole with cutting tool.
- 7. Trip in hole with spear sized to engage the I.D. of the tubing.
- 8. Engage the previously cut tubing segment with spear.
- 9. Trip out hole with cut tubing segment and spear.
- 10. Trip in hole with overshot and engage fish.
- 11. Pick up 2 points over neutral weight.
- 12. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
- 13. Once released from packer, trip out of hole with fish.

Plugging Risk Assessment

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Abandonment Procedure

If the tubing cannot be recovered and the well is to be abandoned.

- The operator will ensure that all geologic formations are properly isolated.
- 1. Confirm the I.D. of the injection tubing is free from obstructions.
- 2. Run in hole with wireline set profile plug.
- Set plug inside of packer assembly. (Plug will allow cement to fill the I.D. of the injection tubing and the tubing to casing annulus)
- 4. Run in hole with wireline conveyed perforating guns and perforate the tubing immediately above the packer.
- 5. Trip in hole with an overshot, spear, cement retainer or isolation tool that will provide a work string-to- injection tubing seal.
- 6. Engage the fish with sealing tool.
- 7. Confirm circulation down the tubing and up the tubing-to-casing annulus.
- 8. Cement the work string, injection tubing, injection tubing-to-casing annulus and work string-tocasing annulus to surface.
- 9. Confirm the entirety of the wellbore is cemented to surface and all zones are isolated.
- 10. ND wellhead and install permanent capping flange.



Attachment to C-108 Permian Oilfield Partners, LLC Deep Hole Federal SWD #1 Sec. 19, Twp. 26S, Rge. 32E 1339' FSL, 250' FEL Lea County, NM

April 17, 2019

STATEMENT REGARDING SEISMICITY

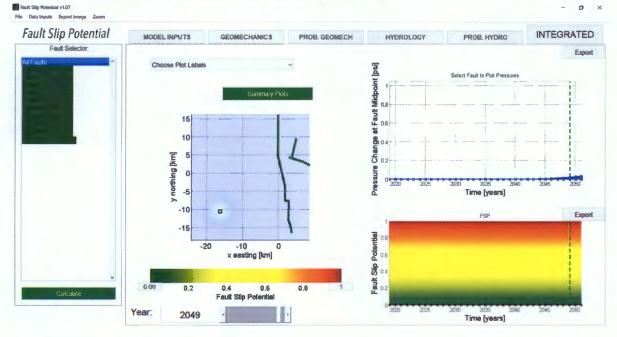
Examination of the USGS and TexNet seismic activity databases has shown minimal historic seismic activity in the area (< 30 miles) of our proposed above referenced SWD well as follows:

- 1. M2.9, 1984-12-09, 18.88 miles away @ 27.70 deg heading
- 2. M3.1, 2012-03-18, 20.81 miles away @ 328.65 deg heading

Permian Oilfield Partners does not own any 2D or 3D seismic data in the area of this proposed SWD well. Our fault interpretations are based on well to well correlations and publicly available data and software as follows:

- 1. USGS Quaternary Fault & Fold database shows no quaternary faults in the nearby area.
- 2. Based on offset well log data, we have not interpreted any faults in the immediate area.
- 3. Basement PreCambrian faults are documented in the Snee & Zoback paper, "State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity", published in the February 2018 issue of the SEG journal, The Leading Edge, along with a method for determining the probability of fault slip in the area.
- 4. Even though we do not propose to inject into the PreCambrian, Permian Oilfield Partners ran modeling to check for fault slip assuming the improbable occurrence of a total downhole well failure that would allow 100% of injected fluids to enter the PreCambrian. Software as discussed in #3 from the Stanford Center for Induced and Triggered Seismicity, "FSP 1.0: A program for probabilistic estimation of fault slip potential resulting from fluid injection", was used to calculate the probability of the PreCambrian fault being stressed so as to create an induced seismic event, with the following assumptions:
 - a. Full proposed capacity of 50,000 BBL/day for 30 years
 - b. 12.5 mD average permeability, 3% average porosity, .75 psi/ft frac gradient, .45 psi/ft hydrostatic gradient

- c. A-phi=0.60 & Max Horizontal Stress direction 75 deg NW, as per Snee, Zoback paper noted above.
- 5. The probability of an induced seismic event in the PreCambrian is calculated to be 0% after 30 years as per the FSP results screenshot below.
- 6. The analysis below assumes an improbable well failure through the Montoya and Simpson zones, into the PreCambrian. When the injected fluids stay in the Devonian-Silurian zone as per design, there will be very low probability of fault slip, since there are no known nearby faults within the Devonian-Silurian.



As per NM OCD requirements (injection well to injection well spacing minimum of 1.5 miles), this proposed above referenced SWD well is located 3.00 miles away from the nearest active or permitted Devonian disposal well.

gfisher@popmidstream.com (817) 606-7630