STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

APPLICATION FOR AUTHORIZATION TO INJECT

[.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: Mesquite SWD, Inc
	ADDRESS: P.O. Box 1478 Carlsbad, NM 88220
	CONTACT PARTY: Kay Havenor PHONE: 575-626-4518
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
v.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including: Oil Conservation Division Case No.
	 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. water.	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 $\sqrt{2}$
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: Kay Havenor TITLE: Agent
	SIGNATURE: Kay C Homenor DATE: 7/8/2013
*	E-MAIL ADDRESS: <u>KHavenor@georesources.com</u> 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:

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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.

INJECTION WELL DATA SHEET

OPERATOR: <u>Mesquite SWD, Inc.</u>		(OGRID 161968)	
WELL NAME & NUMBER: Big Eddy #6		3	0-015-10620
WELL LOCATION: <u>1980' FSL & 660' FWL</u> FOOTAGE LOCATION	L UNIT LETTER		S 31E 'NSHIP RANGE
WELLBORE SCHEMATIC		PROPOSED <u>WELL (</u> Surface Casing	CONSTRUCTION DATA
	Hole Size:	17-1/2"	Casing Size: <u>13-3/8"</u>
See attached diagram	Cemented with: _	<u> </u>	orft ³
	Top of Cement: _	Surface	Method Determined: Opr report
		Intermediate Casi	ing (Now in hole)
	Hole Size:	11"	Casing Size: <u>8-5/8" 32# J-55</u>
	Cemented with: _	<u> </u>	<i>or</i> ft ³
- -	Top of Cement: _	Surface	Method Determined: Opr report
		Production Cas	sing (Proposed)
•	Hole Size:	7-7/8"	Casing Size: 7" XL N-80/P 110
	Cemented with: _	<u>Est 2300</u> sx.	orft ³
	Top of Cement:	Surface	Method Determined:
	Total Depth:	Approx 14,900'	
		Injection	a Interval
		Approximately 13,850'	To Approximately 14,900'

(Perforated or Open Hole; indicate which) Open Hole

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Side 1

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INJECTION WELL DATA SHEET

INJECTION WELL DATA SHEET

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	eker Setting Depth: <u>Approx 13,800 ft</u> her Type of Tubing/Casing Seal (if applicable):
υu	
	Additional Data
1.	Is this a new well drilled for injection?Yes _XNo
	If no, for what purpose was the well originally drilled?O/G
2.	Name of the Injection Formation:
3.	Name of Field or Pool (if applicable):
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. <u>No</u>

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API 30-015-10620

Mesquite SWD, Inc. Big Eddy #6 1980' FSL & 660' FWL Sec. 34, T19S-R31E Eddy Co., NM

Item V:

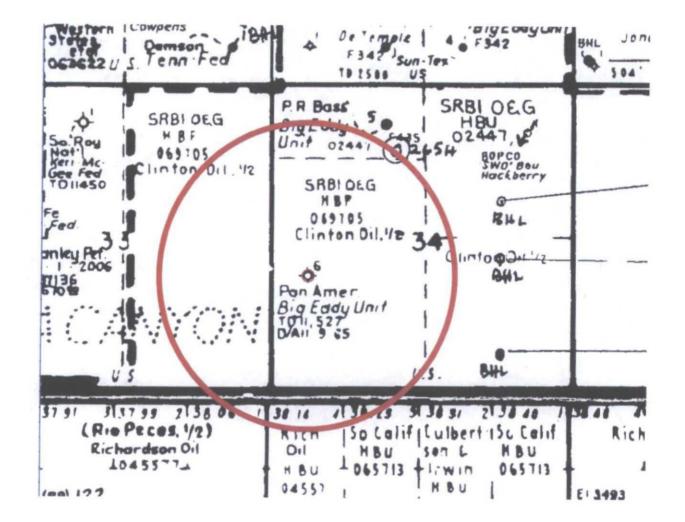
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Area of Review ¹/₂ Mile AOR and 2 Mile Radius

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Item V (a):

Area of Review 1/2 Mile AOR



API 30-015-10620

API 30-015-10620

Mesquite SWD, Inc. Big Eddy #6 1980' FSL & 660' FWL Sec. 34, T19S-R31E Eddy Co., NM

Item VI: Data on wells in AOR:

API	WELL NAME	STATUS	SDIV	SEC	TWN	RANGE	FTG	NS	FTG -	EW 0	CD	OPERATOR	WELL	LAND	PLUG_DATE	SPUD	ELEVGL	TVD_DEPTH
hoose Alore		N / N 1	2 P		10.00	01F	্রা বন্ধুক্রার বন্ধুক্রার		4000.1	<u> २</u> जंगल गान	<u>.</u>		<u></u>	у х е	E F G Street	موتشم م بالمؤتجب	SE	<u></u>
3001541076	BIG EDDY UNIT 265H	New (Not	ι	54	19.0S	31E	1120 N		1980 \	W	ι	BOPCO, L.P.	U	ł			3464	U
3001510620	BIG EDDY UT 006	Plugged	Ĺ	34	19.0S	31E	1980 S	l	660 \	W	LF	PAN AMERICAN PETROLEUM CORF) ()	F	12-Nov-65	09-Oct-65	3469	11527

1. 30-015-10620 Pan American Petroleum Corp. Big Eddy Unit #6, OCD Unit L, Sec. 34, T19S-R31E, 1980' FSL & 660' FWL. Elev 3469' GL. Spud 10/9/1965. $17\frac{1}{2}$ " hole set 325' 13% '48# SJ H-40 @325' w/300 sx cmt, circulated. 11" hole set 3,878' 85% '32# J-55 w/3,700 sx cmt +520 sx cmt w/3/4", circulated. 77%" hole to TD 11,527. Reported: "Drilled well to depth of 11,527' without encountering any show of oil or gas." Well logs not submitted to OCD. Filled hole w/heavy mud. 50 sx cmt plugs placed 11,400'-11,300', 9,900'-9,800', 8.350'-8,250', 7,100'-7,000', 5,400'-5,300', in/out 85%" @3,878', 2,700'-2,600', 10 sx @surface. P&A 11/12/1965.

2. 30-015-41076 BOPCO, LP, Big Eddy Unit #265H, OCD Unit C, Sec. 34, T19S-R31E. 1120' FNL & 1980' FWL. Elev 3464' GL. Proposed TVD 11,062' (Wc) with lateral to 660' FNL & 1980' FEL Sec 34. Well not reported as spudded as of 7/8/2013. Proposed well is 2,557' NE of the proposed Mesquite re-entry, 83' inside the AOR. The AOR landmap, above, is slightly incorrect in the location plot.

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Mesquite SWD, Inc. Big Eddy #6 1980' FSL & 660' FWL Sec. 34, T19S-R31E Eddy Co., NM

Item VII:

- 1. The maximum injection volume anticipated is 25,000 BWPD. Average anticipated is 18,500 BWPD.
- 2. Injection will be through a closed system.
- 3. Maximum injection pressure is expected to be 2770 psi, or as controlled by depth.
- 4. Sources will be produced water that is compatible with known waters in the disposal zones. Most common sources will be Delaware, Bone Springs and Wolfcamp.
- 5. An analysis of Strawn water from a well in Sec. 3, T20S-R31E, immediately south of the proposed re-entry, is shown below and indicates chlorides at 87,350 mg/l and TDS of 142,185 mg/l. Source: Go-Tech website: NM WAIDS):

	BIG EDDY UT								
API	3001505819	Sample Number							
Unit/Section/ Township/Range	P/03/20S/31E	Field							
County	Eddy	Formation	STRAWN						
State	NM	Depth							
Lat/Long	32.59670 , -103.84999	Sample Source	UNKNOWN						
TDS (mg/L)	142185	Water Type							
Sample Date(MM/DD/YYYY)		Analysis Date(MM/DD/YYYY)	·						
Remarks/Description									
	Cation Information (mg/L)	· · · · · · · · · · · · · · · · · · ·	Anion Information (mg/L)						
Potassium (K)		Sulfate (SO)	729						
Sodium (Na)		Chloride (Cl)	87350						
Calcium (Ca)		Carbonate (CO ₃)							
Magnesium (Mg)		Bicarbonate (HCO ₃)	452						
Barium (Ba)		Hydroxide (OH)							
Manganese (Mn)		Hydrogen Sulfide (H ₂ S)							
Strontium (Sr)		Carbon Dioxide (CO ₂)							
lron (Fe)		Oxygen (O)							

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Mesquite SWD, Inc. Big Eddy #6 1980' FSL & 660' FWL Sec. 34, T19S-R31E Eddy Co., NM

Item VIII:

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Disposal will be into the Siluro-Devonian (Devonian) that is comprised of dolomite, and limestone. There is no known fresh, potable water within a 2-mile radius. Records from the New Mexico Office of the State Engineer on 7/7/2013 show one known water well within the 2-mile radius of the proposed Mesquite SWD disposal well. The well below is thought to have been drilled for drill rig water supply. No data on water quality is available.

		New Mexico Offic r Column/Av	0	0	•	
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R-POD has been replaced, O=orphaned, C=the file is closed)	(quarters are 1=NW 2=NE (quarters are smallest to lar	•	meters)	(In feet)	
POD Number*	POD Sub- Code basin C	Q Q Q Ounty 64 16 4 Sec Tws Rag	X	DistanceDept	WellDepth Water	Water Column
CP 00520		ED 4 4 1 10 20S 31E	607163 3606278*	2722	280 130	150
			Ave	rage Depth to Water:	130	feet
				Minimum Dept	n: 130	feet
				Maximum Depth	: 130	feet
Record Count: 1	s Search (in meters):	•••••••••••••••••••••••••••••••••••••••				
	6863	Northing (Y); 3608984	Radius: 3216			
Lasting (A). 00	0005	Monumg (1). 2003204	Ruquis, 5210			
*UTM location was derived						·
•	•	ed by the recipient with the expressed under v for any particular purpose of the data.	erstanding that the OSE/ISC r	nake no warranties, ex	pressed or implied, con	cerning the
				WATER COLU WATER	MN/ AVERAGE DE	PTH TO

The surface geology of the greater area, including the 2-mile radius as shown in Item V above, is Quaternary eolian and piedmont deposits of Holocene to middle Pleistocene age. These are underlain by the Permian Rustler Formation and evaporites. Based upon surface geology and available shallow e-logs the depth to potential potable water, if present, is estimated to be less than 150'.

Item IX:

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Only acid stimulation is currently planned.

Item X:

Logs run by Mesquite will be filed with the OCD upon completion of the well.

Item XI:

One water well is reported in the 2-mile radius of the proposed SWD. It is located approximately 1.7 miles southwest of the re-entry. Please note Item VIII discussion above.

Item XII:

There is no geological evidence of open faults or hydrologic connection between the disposal zone and any possible underground sources of protectable water.

Addendum:

Drilling/evaluation of the lower Pennsylvanian and Mississippian around Section 34 has demonstrated a reasonable lack of potential for commercial hydrocarbon production via horizontal or conventional vertical drilling in the AOR. The proposed interval has been without significant hydrocarbon shows in the disposal target formation. Mesquite SWD intends to have a mud logging unit on the well for deepening the re-entry hole. That information will be available upon completion.

Formation Tops: Anhydrite 835, T/Salt 2910, T/Yates 2365, Delaware Sand 4040, Bone Springs 7060, Wolfcamp 10520, Strawn 11830, estimate T/Devonian 13,850, estimate B/Devonian 14900.

1)

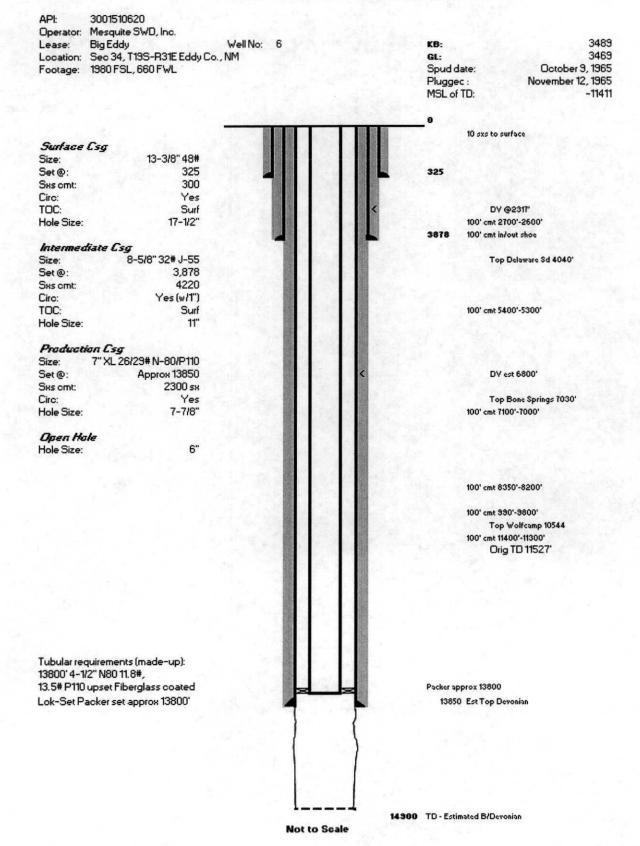
Mesquite SWD, Inc. Big Eddy #6 1980' FSL & 660' FWL Sec. 34, T19S-R31E Eddy Co., NM

P&A Diagram Pan American Petroleum Big Eddy Unit #6

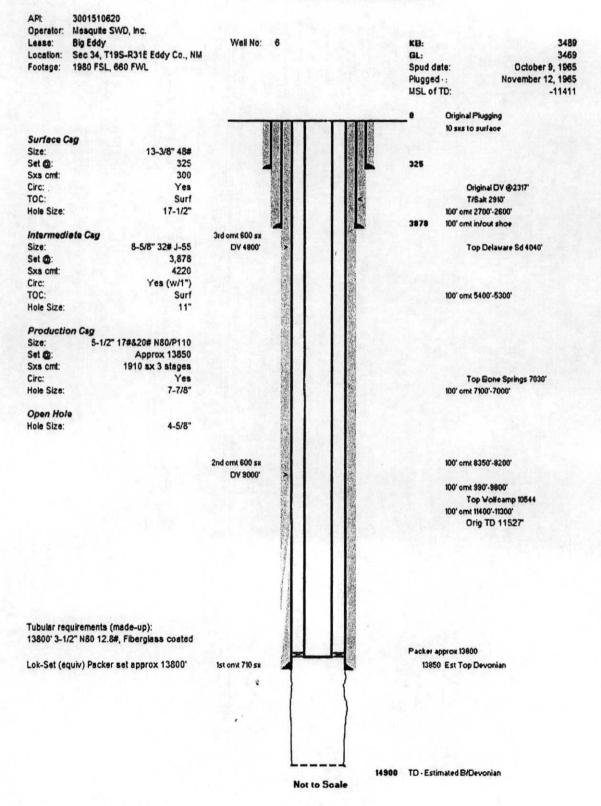
PLUG AND ABANDON WELL DIAGRAM

API:	3001510620 Pan American Petroleum Corr			
Lease:		ell No: 6	KB:	3489
Location:	Sec 34, T19S-R31E Eddy Co.		GL:	3469
Footage:	1980 FSL, 660 FWL	, 1401	Spud date	
. conago.	10001.02,0001.02		Plugged :	
			MSL of TI	
			1102 01 11	0000
			0	
				10 sxs to surface
Surface C	sq			
Size:	13-3/8" 48#			
Set @:	325		325	
Sxs cmt:	300			
Circ:	Yes			
TOC:	Surf	<		DV @2317'
Hole Size:	17-1/2"	A DESTRUCTION OF THE OWNER	1	00' cmt 2700'-2600'
		Contraction of the local division of the loc	3878 1	00' cmt in/out shoe
Intermedia	ate Csg	T		
Size:	8-5/8" 32# J-55	P. 1 200 10 12		Top Delaware Sd 4040'
Set @:	3,878	and the second of the		
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Circ:	Yes (w/1")	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
TOC:	Surf	CHE NSHOWINE D	1	00' cmt 5400'-5300'
Hole Size:	11"			
Production				
Size:	None			
Set @:				
Sxs cmt:				
Circ:		AT A POST OFFICE A POST OF		Top Bone Springs 7030'
Hole Size:	7-7/8"	A COMPACT AND AN OTHER DRIVEN AND AN OTHER DRIVEN	1	00' cmt 7100'-7000'
				00' cmt 8350'-8200'
				00 Chic 0000-0200
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		a research data an owned to 20	1	Top Wolfcamp 10544
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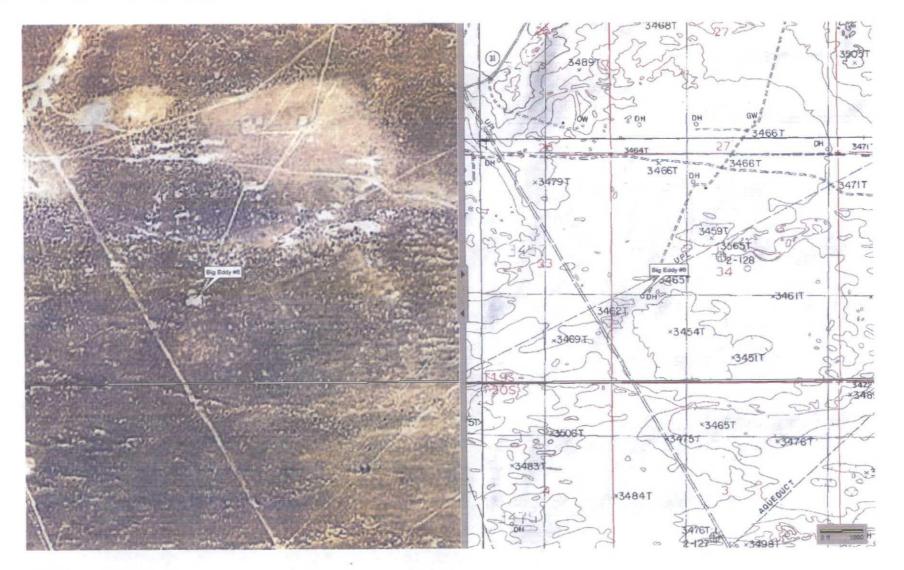
PROPOSED RE-ENTRY & DEEPEN WELL DIAGRAM



PROPOSED RE-ENTRY & DEEPEN WELL DIAGRAM



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Delorme XMap6

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Big Eddy #6 is south of Maljamar, NM and approximately 3.6 miles south of Eddy County CR-248 and CR-222 junction.

API 30-015-10620

Item XIII: Proof of Notice

Minerals Owner:

Bureau of Land Management 620 E. Greene St. Carlsbad, NM 87220

Operator:

BOPCO, LP 6 Desta Drive, Ste 3700 P. O. Box 2760 Midland, TX 79702

The wellsite is outside the Potash boundary.

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

Surface BLM Grazing Lessee:

G&L Cattle, LLC 23104 County Rd 19 Springfield, CO 81073

All acreage in the AOR operated by BOPCO. LP

NW/4 Sec. 34 Non-operator. Basic O/G lessee

Item XIII: Legal Publication

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Affidavit o	f Publicati	ion 22646						
STATE OF NEW MEXIC	, ,							
County of Eddy:		1						
Danny Scott	may D	let						
being duly sworn, says t	hat he is the	Publisher						
of the Artesia Daily Pres	s, a daily newspape	er of general						
circulation, published in	English at Artesia, s	aid county						
and state, and that the h	ereto attached							
	Legal Notice	·						
was published in a regul	ar and entire issue	of the said						
Artesia Daily Press, a da	aily newspaper duly	qualified						
for that purpose within th	te meaning of Chap	ter 167 of						
the 1937 Session Laws	of the state of New	Mexico for						
1 Consecutive	weeks/days on the	e same						
day as follows:								
First Publication	July 9, 20	13						
Second Publication								
Third Publication								
Fourth Publication	<u> </u>							
Fifth Publication								
Subscribed and sworn to	before me this							
9th day of	July	2013						
OFFICIAL SE								
	NOTARY PUBLIC-STATE OF NEW MEXICO							
Ω	\sim	-						
(A astraty	Rom	(A.						
Latisha Rom Notary Public	ine c, Eddy County, Nev	w Mexico						
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Copy of Publication:

LEGAL NOTICE Mesquite SWD, Inc., c/o Kay Mayeor, 904 Moore Ave, Roswell, NM 49201-1144, (575) 828-4518, is seeking approval from the New Mexico Oll Conservation Division to reenter and deepen the Pan American Petroleum Corp. Big Eddy Unit No. 6 well API: 30-015-10620, located 1980 feet from the south line and 680 feet from the west line of Section 34. T19S, R31E, Eddy County, NM for commercial produced water disposal by deepening from original TD 11,527 feet to penetrate the Siluro-Devonian formation. The site is acuth of Maliemar and approximately 3.6 miles south of Eddy County CR-248 and CR-222 junction. The proposed disposal Interval is the Siluro-Devonian formation through open-hole approximately 13,850 feet to 14,900 feet, Mesquite SWD, inc. plans to dispose of a maximum presure of 2,770 psi. Parties with questions regarding this proposal can contact Kay Havenor at the address or phone number above. Interested parties must file objections of publication to the Oil Conservation Division: 1220 South St. Francis Dr., Senta Fe, NM 87505. Published in the Artesia Daily Press, Artesia, N.M., July, 9 2013. Legal No 22486.

Item XIII: Certified Mail Receipts

API 30-015-10620

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Е Б	U.S. Postal Service			ES	(Domestic Mail Only; No Insurance Coverage Provided)				
Å J		ation visit our website	at www.usps.com ₇	6 J.		tion visit our website			
Ļ	CAN SEAT NO	BERGCIAL	USE	글	SPENGFIELD	AL	USE		
10	Postage	\$ \$1.52	0602 0788	30	Postage	\$ \$1.52	0602		
_1	Certified Fee	\$3.10	11 8102	- 	Cartified Fee	\$3.10	10188 10188		
000	Return Receipt Fee (Endorsement Required)	\$2.55	Here , 20	00	Return Receipt Fee (Endorsement Required)	\$2.55	(P) Commark		
	Restricted Delivery Fee (Endorsement Required)	\$0.00	11 / 5/		Restricted Delivery Fee (Endorsement Regulated)	\$0.00			
870	,	[W TIT	010	· · · /		ATTACK THE TOTAL		
ณี	Total Postage & Fees	\$ \$7.17	07/09/2013	വ	Total Postage & Fees	\$ \$7.17	07/05/7015-73		
10.8	Som To Bureau of Land	Management		800	Sent To GRL Cattle, LLC				
202	or PO Box No. 670 E Greene St				or PO Box No. 23104				
	City, State, ZIP+4	bad, NM 88220				gfield, CO 81073			
	PS Form 3600 August 2	006	See Reverse for instructions	_	PS Form 3600. August 20		See Ruvurse for Instructions		
0051	(Domestic Mail O	Service in MAIL III REC Inly; No Insurance C ation visit our website	Coverage Provided)	ፅ ጊ ቆ	(Domestic Mail O For, delivery inform	DMAIL RE(Dnly; No Insurance (ation visit our website	Coverage Provided)		
	MICONDITX	⁹⁷ β2CIAL	USE	41	digandria E	ITV 0C73102A	<u>USE</u>		
ធិ	Postage	s \$1.52	0602	10,	Postage	\$ \$1.52	ALL COL		
יים היק	Certified Fee	\$3.10	10 102885	<u>, 1</u>	Certified Fee	\$3.10	H C		
8	Return Receipt Fee (Endorsement Required)	\$2.55	Pestimark 02 05	000	Return Receipt Fee (Endorsement Required)	\$2.55	Here		
	Restricted Delivery Feo (Endorsement Required)	\$0.00	$\left(\sum_{j \in \mathcal{J}} \left(\int_{\mathcal{J}} \mathcal{G}_{j} \right) \right)$	_	Restricted Delivery Fee (Endorsoment Required)	\$0.00			
1410	Total Postage & Fees	\$ \$7.17	07/15/2013 MSON	281		\$ \$7.17	WN 1		
σ	Sent To BOPCO LP			08	Sent To	Production Co. (.P.			
	BOPCO, LP Street, Apt. No.; or PO Box No. p. p.	Box 2760		70					
15	City, State, ZIP+4	and TY 79702				homa City_ OK 73102			
	PS Form 3800! August 2	006	Sed Reverse for Instructions		PS Farm 3800, August 21	006	See Reverse for Instructions		