12)16 TYPE SWD APP NO. PKSC /625631019

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



THIS CHEC	CKLIST IS	WANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISIO	N RULES AND REGULATIONS
Application A	·	WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	
		national image is a control of the c	oue Dedication1
			se Commingling]
-	4	ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Mo	·
	-	[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expan	
		[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase	
[EOR-Qu	alified Enhanced Oil Recovery Certification] [PPR-Positive Produc	· · · · · · · · · · · · · · · · · · ·
[1] TYP	E OF A	PPLICATION - Check Those Which Apply for [A] Bockcliff O	(371115)
[.]	[A]	Laddin Carried Unit Cimility and Dedication	perating New Mexico Ll
	[]	NICI NICE I CO	ate SWD 1 (30-005-292
		SWD; Devi	onian-Silurian (୧८% ବ
	Chec	k One Only for [B] or [C]	
1	[B]	Commingling - Storage - Measurement	
-		☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OL	M
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery	
. :	*	☐ WFX ☐ PMX X SWD ☐ IPI ☐ EOR ☐ PP	K :
	[D]	Other: Specify	
	[D]	Other, Speeny	
[2] NOT	IFICAT	TION REQUIRED TO: - Check Those Which Apply, or Does Not A	Anniv
	[A]	X Working, Royalty or Overriding Royalty Interest Owners	PP-9
		<i>g, , ,</i> , , , , , , , , , , , , , , , ,	
	[B]	X Offset Operators, Leaseholders or Surface Owner	
:	[C]	X Application is One Which Requires Published Legal Notice	
•	ľĎI	V Notification and/or Consument Assumed by DIM or SLO	
	[D]	X Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office	
•	[E]	X For all of the above, Proof of Notification or Publication is Atta	iched, and/or,
	[F]	Waivers are Attached	
:	[-]	- Warvers are Attached	
		CURATE AND COMPLETE INFORMATION REQUIRED TO ATION INDICATED ABOVE.	PROCESS THE TYPE
[4] CED	TIEIA A	TION. I haraby gortify that the information submitted with the small	ation for admit to the
		TION: I hereby certify that the information submitted with this applicand complete to the best of my knowledge. I also understand that no a	
		equired information and notifications are submitted to the Division.	ction will be taken on this
application un		\mathcal{N}	
	Note	: Statement must be completed by an individual with managerial and/or supervisor	ry capacity.
Brian Woo	d	Consultant	9-9-16
Print or Type N	lame	Signature Title	Date
		brian@permitsw	/est.com
		e-mail Address	

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 Application qualifies for administrative approval? Yes N	XXX Disposal	Storage
II.	OPERATOR: ROCKCLIFF OPERATING NEW MEXICO LLC		
	ADDRESS: 1301 McKINNEY, SUITE 1300, HOUSTON TX 7	7010	. :
	CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.)	PHONE: <u>505</u>	466-8120
III.	WELL DATA: Complete the data required on the reverse side of this form for each well p Additional sheets may be attached if necessary.	proposed for injection.	·
IV.	Is this an expansion of an existing project? Yes YXX 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 drawn around each proposed injection well. This circle identifies the well's area of review		e radius circle
VI.	Attach a tabulation of data on all wells of public record within the area of review which per Such data shall include a description of each well's type, construction, date drilled, location schematic of any plugged well illustrating all plugging detail.	n, depth, record of comple	etion, and a
VII.	Attach data on the proposed operation, including:	McCloy State 30-005-29214	1 1
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; 	SWD; Devonia	n-Silurian
	 Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receive produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within chemical analysis of the disposal zone formation water (may be measured or inferred in the companion of the disposal zone formation water). 	n one mile of the proposed	l weil, attach a
5	wells, etc.).	· · · · · · · · · · · · · · · · · · ·	
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic de depth. Give the geologic name, and depth to bottom of all underground sources of drinkin total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed inject known to be immediately underlying the injection interval.	ng water (aquifers contain	ing waters with
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	e Division, they need not b	e resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available injection or disposal well showing location of wells and dates samples were taken.	and producing) within one	e mile of any
XII.	Applicants for disposal wells must make an affirmative statement that they have examined data and find no evidence of open faults or any other hydrologic connection between the courses 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 a and belief.	nd correct to the best of m	ny knowledge
		CONSULTANT	
•	Kilon	DATE: SEPT. 8,	2016
	E-MAIL ADDRESS: brian@permitswest.com		
*	If the information required under Sections VI, VIII, X, and XI above has been previously s	ubmitted, it need not be re	

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

WELL NAME & NUMBER: McCLOY STATE SW	D 1		·						
WELL LOCATION: 220 FSL & 2080 FWL	N	15	8 S	32 E					
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE					
WELLBORE SCHEMATIC		WELL CONSTRUCTION DATA							
(not to scale)		Surface Casing							
\$ 13.375" 48# \$ 2	in Hole Size:	17.5"	Casing Size:	13.375"					
TOC (305 sx)		305 sx.	or	ft ³					
	Top of Cement:	SURFACE							
17.5" hole @ TOC (305 sx)		Intermedia	ate Casing						
	Hole Size:	12.25"	Casing Size:	9.625"					
9.625" 40# in 12.25" hole @ 4800	Cemented with:	1670 sx.	or	ft ³					
9.625" 40# in 12.25" hole @ 4800	Top of Cement:	SURFACE	Method Determine	ned: CIRCULATE					
(a) 100 (1070 3x) = 02		Production Casing							
គ្និ ប៉ុន្ម ភ្នៃ កូរី 26# & 32# in ១ 8.75" hole @ 10,990' packer @ 1517 sx & DV tool @ 790	Hole Size:	8.75"	Casing Size:	7"					
packer @ 1517 sx & DV tool @ 790 ≈10,940' TOC = GL	יחר	1517 sx.		ft ³					
Devonian-Silurian 5.875" open hole	Top of Cement:	SURFACE	Method Determin	ned: CBL					
10,990' - 11,330'	Total Depth: 10	990'(csg), 11330	'(PBTD), & 1	1400'(TD)					
PBTD 11,330'		Injection	<u>Interval</u>						
TD 11,400'	5 875" HO	5.875" HOLE SIZE 10990 feet to 11330'							

INJECTION WELL DATA SHEET

Γub	oing Size: _	3.5"	Lining l	Material:	PLASTIC		
Гур	e of Packer:	7" X 3.5" NICKEL	PLATED &/O	R STAINL	ESS ST	EEL	
Pac	ker Setting	Depth: <u>≈10,940'</u>					
Oth	ner Type of	Tubing/Casing Seal (if ap	plicable):				
			Additional Da	<u>ta</u>			
1.	Is this a n	ew well drilled for injection	on?	XXX Yes	S	_No	
	If no, for	what purpose was the wel	l originally drille	d?			
						,	
2.	Name of t	the Injection Formation: _	DEVONIAN &	SILURIAN	<u> </u>		•
3.	Name of I	Field or Pool (if applicable	e): SWD; DEVON	IAN-SILU	JRIAN (97869)	
4.		vell ever been perforated in and give plugging detail, i	•	,	•		
5.		name and depths of any oi zone in this area:	•			<u> </u>	
	OVER: S	SAN ANDRES (3410')	! 				
		-					
	UNDER:	NONE					

ROCKCLIFF OPERATING NEW MEXICO LLC McCLOY STATE SWD 1 220' FSL & 2080' FWL SEC. 15, T. 8 S., R. 32 E. CHAVES COUNTY, NM

30-005-29214

I. Plan is to drill an 11,400' deep saltwater disposal well. Proposed disposal interval will be 10,990' – 11,330' in the SWD; Devonian-Silurian (97869). See Exhibit A for map and Form C-102.

II. Operator: Rockcliff Operating New Mexico LLC Operator phone number: (713) 351-0500

Operator address: 1301 McKinney, Suite 1300, Houston TX 77010

Contact for Application: Brian Wood (Permits West, Inc.)

Phone: (505) 466-8120

III. A. (1) Lease: New Mexico State Land Office lease V0-9935-0002

Lease Size: 320.00 acres Closest Lease Line: 220'

Lease Area: S2 Section 15, T. 8 S., R. 32 E. Well name and number: McCloy State SWD 1

Location: 220' FSL & 2080' FWL Section 15, T. 8 S., R. 32 E.

A. (2) Surface casing (13.375", 48#, H-40, ST&C) will be set at 500' in a 17.5" hole and cemented to GL with 305 sacks Class C.

Intermediate casing (9.625", 40#, L-80, LT&C) will be set at 4,800' in a 12.25" hole and cemented to GL with 1670 sacks Class C.

First production casing (7", 26#, L-80, LT&C) will be set at 7,500' in an 8.75" hole.

Second production casing (7", 32#, L-80, LT&C) will be run from 7,500' to 10,990' in an 8.75" hole.

Production casing will be cemented to GL with 1517 sacks Class H. DV tool will be set at 7,900'.



McCLOY STATE SWD 1 220' FSL & 2080' FWL SEC. 15, T. 8 S., R. 32 E. CHAVES COUNTY, NM

30-005-29214

A 5.875" open hole will be drilled from 10,990' to 11,400' (TD) and plugged back to 11,330'.

- A. (3) Tubing will be 3.5", N-80, 9.3#, IPC. Setting depth will be ≈10,940'. (Disposal interval will be 10,990' to 11,330'.)
- A. (4) A retrievable nickel plated or stainless steel packer will be set at $\approx 10,940$ ' (or ≤ 100 ' above the top of the open hole which will be at 10,990').
- B. (1) Disposal zone will be the Devonian (SWD; Devonian-Silurian (97869) pool). Estimated fracture gradient is ≈0.65 psi per foot.
- B. (2) Disposal interval will be open hole from 10,990' to 11,330'.
- B. (3) Well has not been drilled. It will be drilled as a saltwater disposal well.
- B. (4) No perforated intervals are in the well.
- B. (5) One existing well (30-005-21128) is in the area of review and it penetrated the Devonian. It was P&A without yielding any production from any zone. No oil or gas zone is above the Devonian or below the Silurian in the area of review. Closest Devonian producer (30-005-21071) is 7 miles northwest in E-29-7s-31e. Closest Silurian producer (30-005-63567) is 45 miles southwest in A-35-11s-26e.
- IV. This is not an expansion of an existing injection project. It is disposal only.
- V. Exhibit B shows the 2 existing wells (both P&A) within a half-mile radius. Exhibit C shows 25 existing wells (1 SWD + 4 oil wells + 20 P&A wells) within a 2-mile radius.



ROCKCLIFF OPERATING NEW MEXICO LLC McCLOY STATE SWD 1 220' FSL & 2080' FWL SEC. 15, T. 8 S., R. 32 E. CHAVES COUNTY, NM

PAGE 3

30-005-29214

Exhibits D and E shows all leases and lessors within a half-mile radius (only State) and two-mile radius (only fee, BLM, and State) leases within each radius. Details on the leases are:

Aliquot Parts in Area of Review (T8S, R32E)	Lessor	Lease	Lessee(s) of Record
S2SW4 & SWSE Sec. 15	NMSLO	V0-9923-0002	Rockcliff
S2 Sec. 15	NMSLO	V0-9935-0002	Rockcliff
E2SE4 Sec. 16	NMSLO	unleased	N/A
E2NE4 Sec. 21	NMSLO	VB-2620-0002	Rockcliff
N2 Sec. 22	NMSLO	V0-9936-0002	Rockcliff

VI. Two wells are within a half-mile radius, one of which penetrated the Devonian. A table abstracting the penetrator is in Exhibit F, which also has the P&A diagram for that well. The closest wells are:

АРІ	WHO	UL- SECTION- T8S-R32E	TVD	WELL	STATUS	ZONE(S) OF INTEREST	FEET FROM McCLOY STATE SWD 1
3000510046	Coastal	P-15	9095'	Bell State 1	P&A	San Andres & Penn	2577
3000521128	Apache	M-22	10877'	State 22-1	P&A	San Andres - Penn	2595
3000510028	Bell	P-16	4600'	State 1	P&A	San Andres	2775

- VII. 1. Average injection rate will be ≈15,000 bwpd. Maximum injection rate will be ≈20,000 bwpd.
 - 2. System will be open and closed. Some water will be trucked and some will be piped.
 - 3. Average injection pressure will be $\approx 2,000$ psi and maximum will be 2,198 psi (= 0.2 psi/foot x 10,990' (top of open hole)).



McCLOY STATE SWD 1 220' FSL & 2080' FWL SEC. 15, T. 8 S., R. 32 E. CHAVES COUNTY, NM

30-005-29214

- 4. Main source of disposal water will be water produced from San Andres wells. A San Andres well (30-005-10458) 1-1/2 miles southwest found TDS at 243,827 mg/l and chlorides at 147,000 mg/l. However, water produced from other Permian Basin zones could also be disposed.
- 5. Closest (7 miles northwest in E-29-7s-31e) Devonian producer is Lee's McCombs 1 (30-005-21071). It is in the Lone Wolf; Devonian (Gas) Pool (80490). Closest (45 miles southwest in A-35-11s-26e) Silurian producer is Yates' Luminary BAU Federal Com 2 (30-005-63567). It is in the Wildcat; Silurian (Gas) Pool (96079). Three Devonian water analyses are in Exhibit G.

VIII. The Silurian-Devonian (\approx 344' thick) is highly permeable fractured and vuggy limestone and dolomite. Closest possible underground source of drinking water above the proposed disposal interval are the \approx 1600' deep red beds at the surface. State Engineer records (Exhibit H) show 3 water wells within 2 miles. Deepest of those 3 wells is 180'. No underground source of drinking water is below the proposed disposal interval.

Estimated formation tops are:

Quaternary = 0'

Rustler = 1681'

Salado = 1800'

Yates = 2231'

Queen = 2927'

San Andres = 3410'

Glorieta = 4787'

Yeso = 4886'

Tubb = 6283'

Abo = 7140'

Wolfcamp = 8081'

Penn = 8744'

Mississippian = 10282'

Woodford = 10803'



ROCKCLIFF OPERATING NEW MEXICO LLC McCLOY STATE SWD 1 220' FSL & 2080' FWL SEC. 15, T. 8 S., R. 32 E. CHAVES COUNTY, NM

PAGE 5

30-005-29214

Siluro-Devonian = 10988' disposal interval = 10990' - 11330' Montoya = 11332' TD = 11400'

No water wells are within a 1-mile radius according to State Engineer records (Exhibit H). However, a water well not in State Engineer records was found within a mile (Exhibit H) on August 13, 2016. This windmill (Sweetwater Well on USGS map) is 0.7 mile west and was sampled. A water well (RA 12225) 1.04 miles southeast was also sampled. There will be $\approx 9,300$ ' of vertical separation, including 550' of salt and anhydrite and 185' of shale, between the bottom of the only likely underground water source (red beds) and the top of the Devonian.

- IX. The well will be stimulated with acid if needed.
- X. Triple combo logs will be run.
- XI. Based on an August 13, 2016 field inspection, one water well is within a mile radius and it was sampled. A second well, 1.04 miles from the proposed disposal well, was also sampled. Analyses are in Exhibit H.
- XII. Closest Quaternary fault (Guadalupe) is ≈114 miles southwest (Exhibit I). Rockcliff Operating New Mexico LLC is not aware of any geologic or engineering data that may indicate the Silurian or Devonian are in hydrologic connection with any underground sources of water. Hundreds of feet of evaporites and shale prevent that from occurring. Deepest water well within a 2-mile radius is 180' (Exhibit G). There are 144 approved Devonian saltwater disposal wells, 5 approved Silurian disposal wells, and 11 approved Devonian water injection wells in New Mexico. Four of the Devonian SWD wells also dispose into the Silurian.



ROCKCLIFF OPERATING NEW MEXICO LLC McCLOY STATE SWD 1 220' FSL & 2080' FWL SEC. 15, T. 8 S., R. 32 E. CHAVES COUNTY, NM

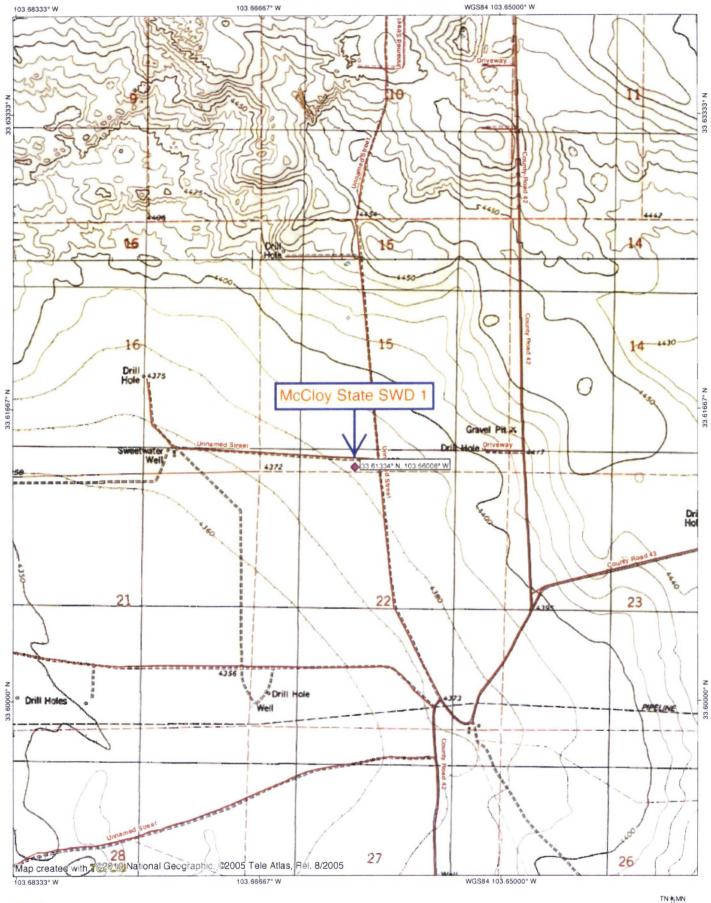
PAGE 6

30-005-29214

XIII. A legal ad (see Exhibit J) was published on August 12, 2016. Notice (this application) has been sent (Exhibit K) to the surface owner (NM State Land Office), lessees (only Rockcliff), and unleased mineral owners (only NM State Land Office) within a half-mile. There are no well operators within a half-mile.



TOPO! map printed on 09/04/16 from "Untitled.tpo"





0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 miles 0 0.5 1.0 km





District 1
1625 N. Friench Dr., Hubbs, NM 88240
Phone: (575) 393-6161 Phat: (575) 393-0720
District II
R11 S. Friench, Astrona, NM 88210
Phone: (575) 748-1283 Fax: (375) 748-9720
District III
1000 Rio tharos Road, Azreu, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1120 S. St. Prancis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

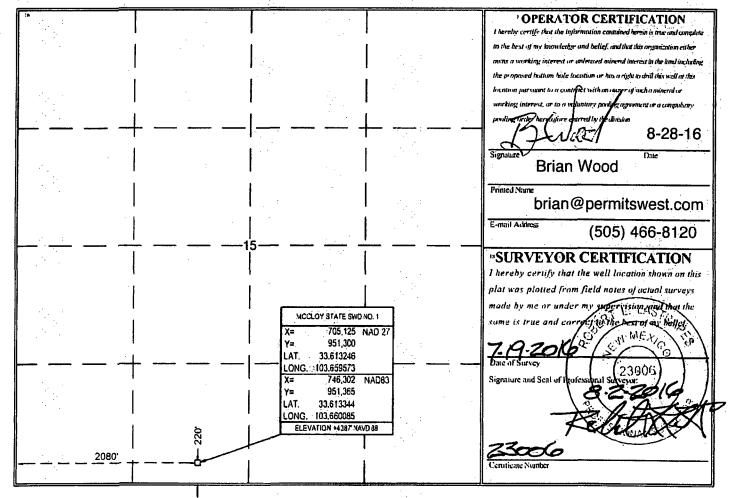
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

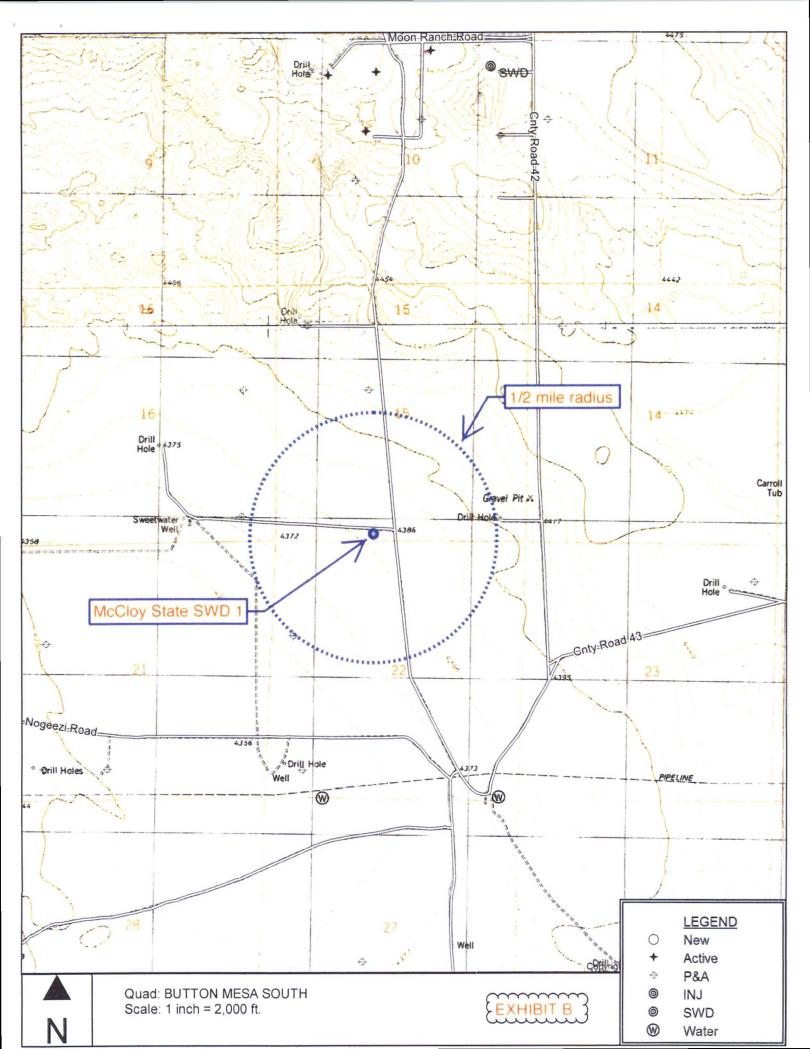
WELL LOCATION AND ACREAGE DEDICATION PLAT

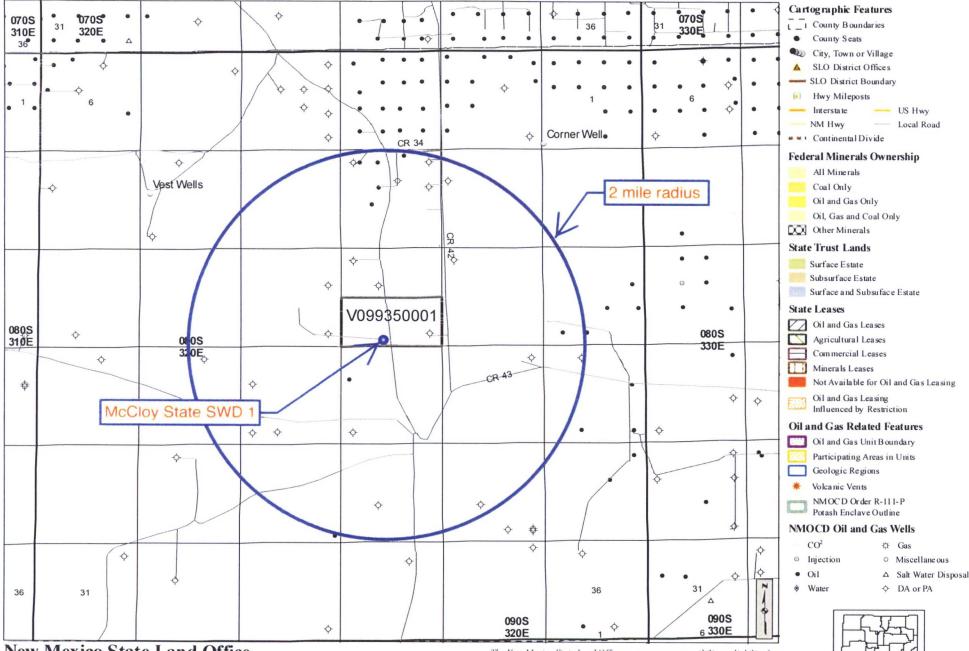
30-005-	'API Num 29214	ber	³ Pool C 9786		SWD; Devonian-Silurian					
'Property Code 'Property Name 316772 MCCLOY STATE SWD							" Well Number			
OGRID No. Operator Name 371115 Rockcliff Operating New Mexico LLC 4387										
				[™] Sur	face Locat	ion				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	c County	
N	15	8 SOUTH	32 EAST, N.M.P.M.		220'	SOUTH	2080'	WEST	CHAVES	
7 7 7			" Bottom H	ole Locat	ion If Diff	erent From S	urface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	County	
N	15	8 SOUTH	32 EAST, N.M.P.M.		220'	SOUTH	2080'	WEST	CHAVES	
Dedicated Ac	eres '' Joir	t or lafill	** Consolidation Code	Order No.		1				

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









New Mexico State Land Office Oil, Gas and Minerals

0 0.2 0.4 0.8 1.2 1.6 Miles

Universal Transverse Mercator Projection, Zone 13 1983 North American Datum The New Mexico State Land Office assumes no responsibility or liability for, or in connection with, the accuracy, reliability or use of the information provided here, in State Land Office data layers or any other data layer.

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





www.nmstatelands.org

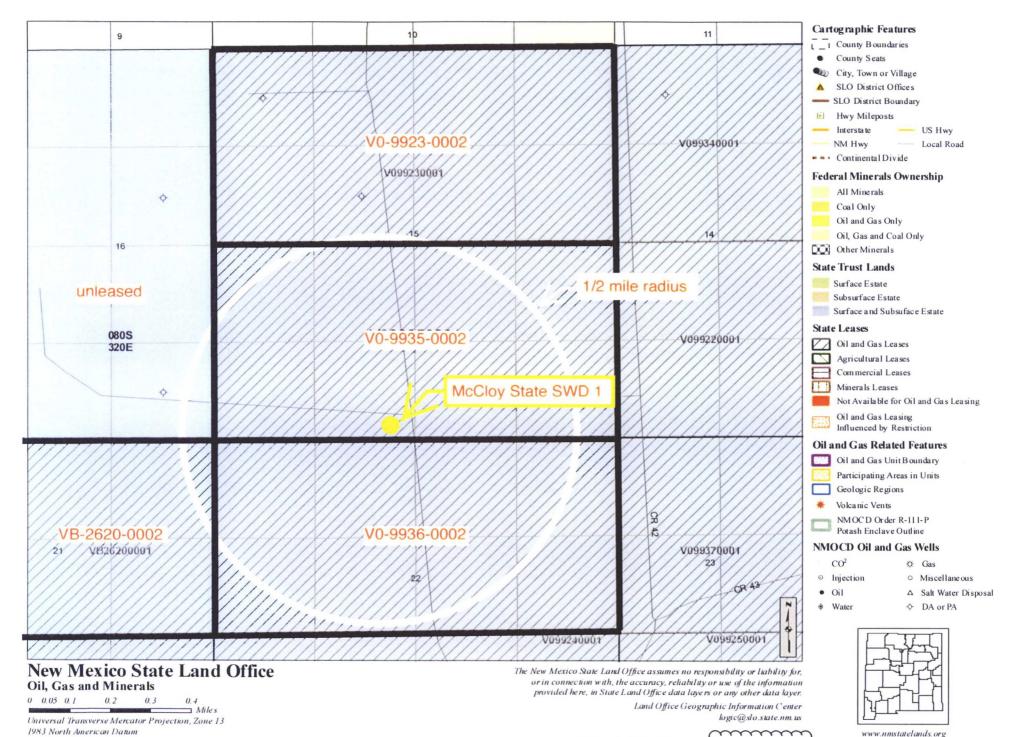
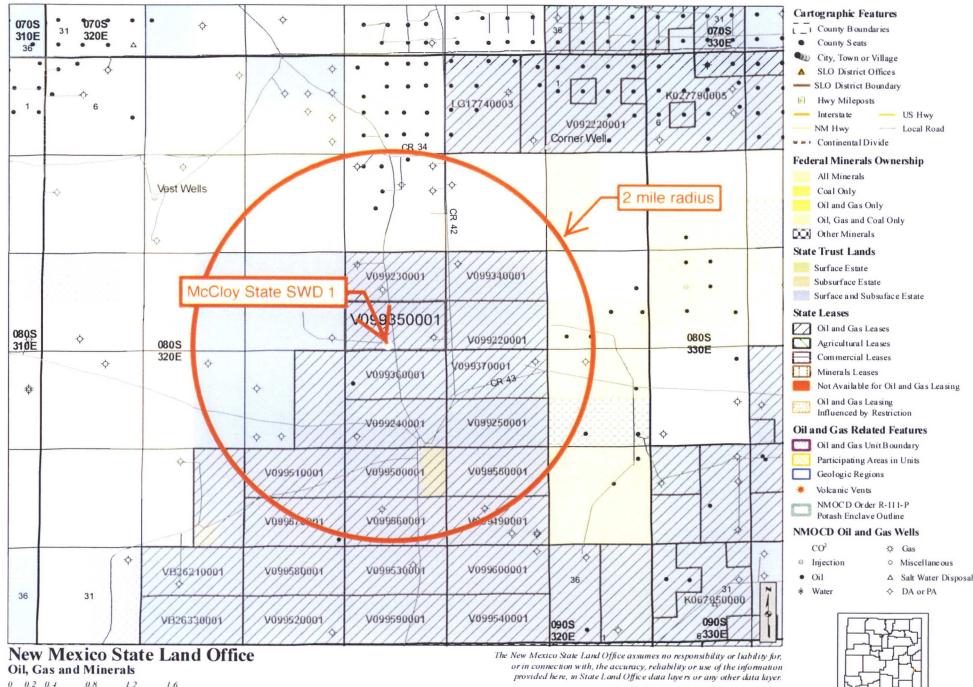


EXHIBIT D



1.2

Universal Transverse Mercator Projection, Zone 13

1983 North American Datum

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

www.nmstatelands.org

Devonian Penetrators within 1/2 Mile of McCloy State SWD 1

WELL	SPUD	TD	POOL	STATUS	HOLE O.D.	CASING O.D.	SET	CEMENT	тос
State 22-1	8/10/94	10877'	wildcat	P&A	17.5	13.375	406	415 sx	no report
30-005-21128	PLUG				12.25	8.625	3819	1115 sx	no report
M-22-8s-32e	9/28/94				7.875	long	string	not	run

State 22-1 30-005-21128 M-22-8s-32e Roosevelt County NM spud: 8-10-94 plug 9-28-94

(not to scale)

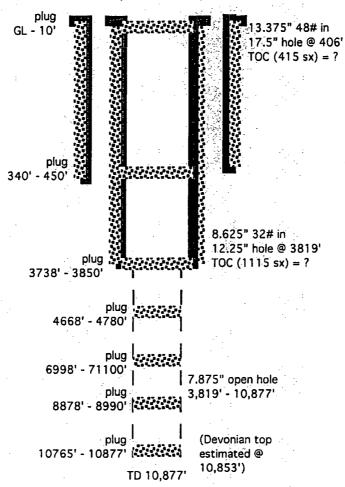


EXHIBIT F



HALLIBURTON DIVISION LABORATORY

HALLIBURTON COMPANY MIDLAND DIVISION

CASE NO. 3971

	LABORATORY '	WATER A	NALYSIS	No!!!=!!!!=(1	
To BILL McCoy	San	Andres wa	ater Dale_	11-25-68	· .
			This mount is the respec	erty of Hallidianton Comp	and and acide
		•	it for any part thereof or disclosed without fir	near a copy thereof is it securing the captures	to be published antien approvi
Roswell, Ne	w Mexico		course of regular busine	nant; if may however, oss operations by any pe receiving such report f	ursan or conterr
			Campany.	recovery form report	TOPE TISSUOGES
Submitted by			Dote Rec	11-22-68	
Well No	Depth	.,	Formation		
County	Field		Source	-	.*
County	Southern Minerals "C" Lease				
- 1 - 1					
Resistivity	.048 9 71 F.			from well file	
Specific Gravity	1.178	[30-005-10478 C-1-8s-33e	
Hq	r 0	ĺ		R-3615	
•				Case 3971	
Calcium (Ca)					
Magnesium (Mg)	9,600		·		
Chlorides (CI)	161,500		1 .	(AMNTEN	7 TYER
Sulfates (SO ₄)			OIL CONSET		į
			gip :	ua alterati	
Bicarbonates (HCO ₃)			C// 5 NO	24.//	
Soluble Iron (Fe)	N11				
Sulfides (H2S)			•		
		,			
······································		-	•		•
Remarks:	•			*Milligrams p	er liter
•			•		
	Respectfull	y submitted	I,		
Analyst: Whitfield			HALLIBURTON	COMPANY	
CC:	· · · · · · · · · · · · · · · · · · ·		HALLBORION	a / J	
		Ву	and Wit		
•	እነሮነኝ	בורוב י	UIVIS.OF C	niciwi 91	

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or amission, resulting from such report or its use.

EXHIBIT G

from well file HALLIBURTON ENERGY SERVICES SWD-651 30-005-62523 WATER ANALYSIS

Devonian Artesia, NM LAB ANALYSIS #: ATO10037

GENERAL INFORMATION

Marbob Energy OPERATOR:

Ramos Fee # 1 WELL: FIELD: 30-005-63104

FORMATION: G-7-13s-28e

COUNTY: STATE:

DEPTH:

DATE SAMPLED: 10/22/96 DATE RECEIVED: 10/23/96 SUBMITTED BY: John Gray

WORKED BY:

Mike Hill

PHONE #:

(505) 746-2757

SAMPLE DESCRIPTION:

PHYSICAL AND CHEMICAL DETERMINATIONS

1.030 @ 70 °F 7.2 SPECIFIC GRAVITY: PH:): .115 OHMS @ 75 °F 3 PPM SULFATE RESISTIVITY (CALC. IRON (FE++): SULFATE: 194 PPM 4350 PPM CALCIUM: TOTAL HARDNESS: 14660 PPM 1925 PPM 920 PPM **BICARBONATE:** MAGNESIUM: CHLORIDE: 26208 PPM SODIUM CHLORIDE (CALC) 43112 PPM SODIUM+POTASS: 11086 PPM TOT, DISSOLVED SOLIDS: 54073 : PPM

REMARKS:

STIFF TYPE PLOT (IN MEQ/L)

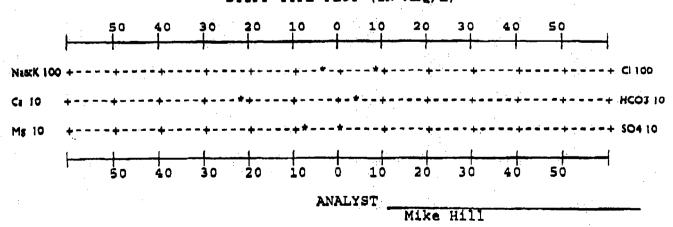


EXHIBIT G

from well file

HALLIBURTON ENERGY SERVICES SWD-651 30-005-62523

WATER ANALYSIS

Devonian

LAB Artesia. NM ANALYSIS #: ATO10037

GENERAL INFORMATION

OPERATOR: Marbob Energy

WELL: Charlie St # 1

FIELD: 30-005-62980 FORMATION: B-33-12s-28e

COUNTY: STATE:

DEPTH:

DATE SAMPLED: 10/22/96 DATE RECEIVED: 10/23/96 SUBMITTED BY: John Gray

WORKED BY: PHONE #:

Mike Hill (505) 746-2757

SAMPLE DESCRIPTION: 25% Emulsion, Most LiVely Due to Iron Content

PHYSICAL AND CHEMICAL DETERMINATIONS

PH: 7.2 1.025 @ 70 °F SPECIFIC GRAVITY:

): .115 OHMS @ 75 °F 25 PPM SULFATE: RESISTIVITY (CALC. IRON (FE++): SULFATE: TOTAL HARDNESS: CALCIUM: 4488 PPM 948 PPM BICARBONATE:

MAGNESIUM: CHLORIDE: 25360 PPM 10421 PPM SODIUM+POTASS:

SODIUM CHLORIDE (CALC) TOT. DISSOLVED SOLIDS: 15122 PPM 1934 PPM 41717 PPM 53228 PPM

- 390 PPM

REMARKS:

STIFF TYPE PLOT (IN MEQ/L)

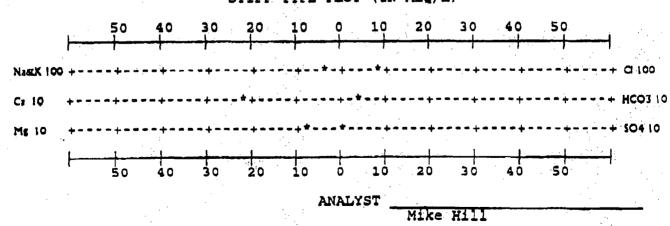


EXHIBIT G

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES ARTESIA DISTRICT

LABORATORY REPORT

from well file SWD-651 30-005-62523

No. W146-89

HALLIBURTON SERVICES

70	Hanagan P	etroleum		-		Dat	Date May 1, 1989				
<u> </u>	P. O. Box	1737	·	_	:						
1	Roswell,	NM 88201			thereof; nor a copy	Trerest a t	te published or dis	and namer 4 nor any part total wifers light securing smart, 8 may hawayer, be			
					used in the course	al regular be	rances operations buch report from Hel	any person or concern and			
Submitted 1	by				Date Re	. <u>A</u>	pril 28	1989			
		yo #2 30-005-62523	Depth		· .	For	mation_De	vonian			
Field		K-33-12s-28e	County		-		rce Swa				
Resistivit	у	.195 @ 60°				· ·	ur :				
Specific G	ravity	1.025 @ 60°									
рН		7.0									
Calcium		3,800					: : : : : : : : : : : : : : : : : : : :				
Magnesium		800		·	· ·						
Chlorides		22,000									
Sulfates .		1,600				<u></u>	·				
Bicarbonat	48	900									
Soluble Ir	on	150									
			-		:		1-				
Remarks:											
	. P	· .				-		EXHIBIT G			
		4/1	2		News	mi					
	-	at li	uas	bnit	<i>y</i>						

NOTICE:

Analyst: Art Carrasco - District Engineer

This report is for information only end the content is limited to the sample described. Halliburton makes no warranties, express or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be hable for any loss or damage; regardless of cause, including any act or omission of Halliburton, resulting from the use hereof

from well file SWD-651 30-005-62523

Devonian Water Comparison Table

	Devonian	Devonian	Devonian	
:	Long Arroyo #2	Ramos #1	Charlie St. #1	
Resistivity	.195@60	.115@75	.115@75	<u>-</u>
Specific Gravity	1.025@60	1.030@75	1.025@75	
pН	7.0	7.2	7.5	
Calcium	3800ppm	4350ppm	4488ppm	
Magnesium	800ppm	920ppm	948ppm	
Chlorides	22000ppm	26208ppm	25360ppm	•
Sulfates	1600ppm	194ppm	390ppm	., ;
Bicarbonates	900ppm	19 25 ppm	1934ppm	





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	POD Sub-		Q C									Water
POD Number	Code basin County	64	16_4	Sec	Tws	Rng	X_	ΥΥ	Distance	Well	Water	Column
RA 12225 POD1	CH ⁻	2	1	1 27	08S	32E	624005	3718438 🍪	1677	115	70	45
RA 12226 POD1	СН	4	4 4	1 22	0,85	32E	625136	3718457 🏈	1834	115	80	35
RA 10573	СН	3	2	1 10	08S	32E	624174	3722911* 🏈	2823	180	165	15

Average Depth to Water:

105 feet

Minimum Depth:

70 feet

Maximum Depth:

165 feet

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 624301

Northing (Y): 3720090

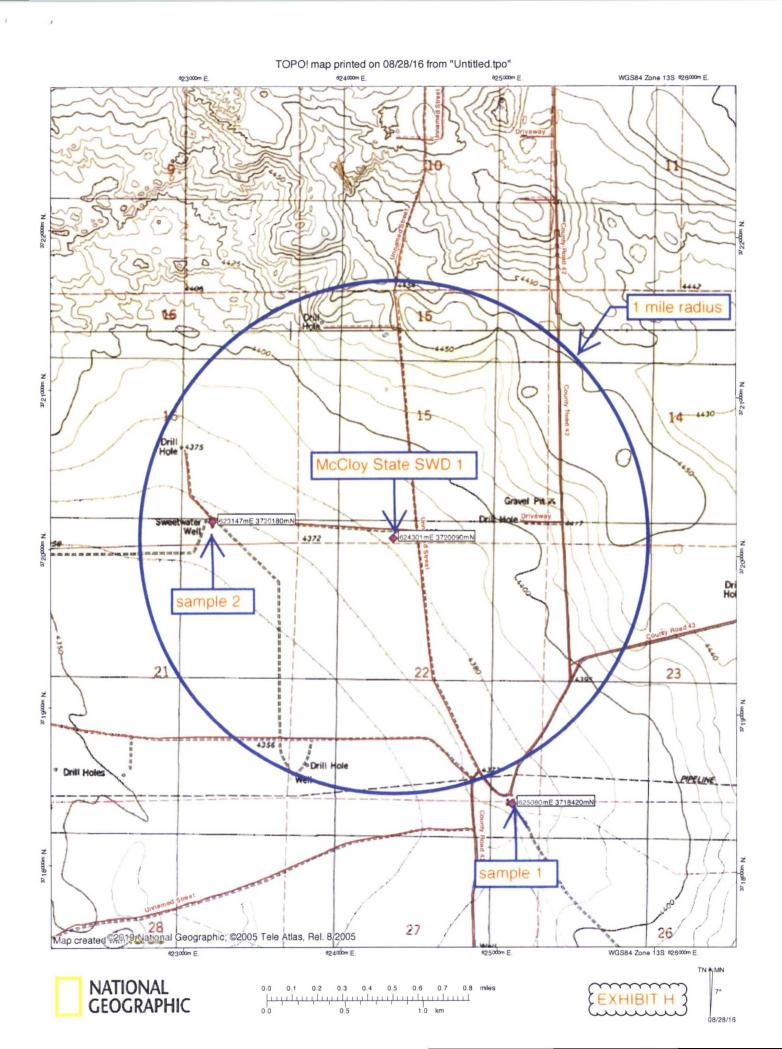
Radius: 3220 meters

x 3.28 feet/meter

10,561 feet

(10.560 ft = 2.00 miles)





Analytical Report

Lab Order 1608956

Date Reported: 8/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: McCloy SWD #1

Project: Rockcliff McCloy SWD

Collection Date: 8/13/2016 10:45:00 AM

Lab ID: 1608956-001

Matrix: AQUEOUS

Received Date: 8/16/2016 12:48:00 PM

Analyses	Result	PQL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				:	Analyst: MRA
Chloride	310	50 *	mg/L	100	8/17/2016 9:13:45 PM
EPA METHOD 1664A			•	•	Analyst: tnc
N-Hexane Extractable Material	ND	9.8	mg/L	1	8/22/2016 9:06:00 AM
SM2540C MOD: TOTAL DISSOLVE	SOLIDS				Analyst: KS
Total Dissolved Solids	1070	20.0	mg/L	1 -	8/20/2016 5:35:00 PM



Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1608956

Date Reported: 8/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: McCloy SWD #2

Project:

Rockcliff McCloy SWD

Collection Date: 8/13/2016 1:16:00 PM

Lab ID:

1608956-002

Matrix: AQUEOUS

Received Date: 8/16/2016 12:48:00 PM

Analyses	Result	PQL Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	120	5.0 mg/L	10	8/17/2016 9:26:10 PM
EPA METHOD 1664A				Analyst: tnc
N-Hexane Extractable Material	ND -	10 mg/L	1	8/22/2016 9:06:00 AM
SM2540C MOD: TOTAL DISSOLV	ED SOLIDS			Analyst: KS
Total Dissolved Solids	708	20.0 * mg/L	1 🐇	8/20/2016 5:35:00 PM



Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1608956

29-Aug-16

Client:

Permits West

Project:

Rockcliff McCloy SWD

Sample ID MB-27097

SampType: MBLK

TestCode: EPA Method 1664A

Client ID: **PBW**

Batch ID: 27097

RunNo: 36688

Prep Date:

8/22/2016

Analysis Date: 8/22/2016

PQL

10

SeqNo: 1136744

Units: mg/L

RPDLimit

Qual

Analyte

Analyte

Result

SPK value SPK Ref Val

%REC LowLimit

HighLimit

%RPD

N-Hexane Extractable Material Sample ID LCS-27097

ND

SampType: LCS

TestCode: EPA Method 1664A

Client ID:

LCSW

Batch ID: 27097

PQL

RunNo: 36688

Units: mg/L

Prep Date: 8/22/2016 Analysis Date: 8/22/2016

SeqNo: 1136745

LowLimit **HighLimit** Qual

N-Hexane Extractable Material

40.00

%REC 101

RPDLimit

40

Result

10

SPK value SPK Ref Val

%RPD

ō

114

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Н Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Е Value above quantitation range J Analyte detected below quantitation limits

Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Page 3 of 5



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1608956

29-Aug-16

Client:

Permits West

Project:

Rockcliff McCloy SWD

Sample ID MB

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBW

Batch ID: R36593

RunNo: 36593

Analysis Date: 8/17/2016

SeqNo: 1133301

Units: mg/L

RPDLimit

Qual

Analyte Chloride

Prep Date:

Result

PQL SPK value SPK Ref Val %REC

LowLimit

HighLimit

%RPD

ND

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSW

Sample ID. LCS

Batch ID: R36593 Analysis Date: 8/17/2016

PQL

0.50

0.50

RunNo: 36593

SeqNo: 1133302

Units: mg/L

110

HighLimit

RPDLimit

Analyte

Client ID:

Prep Date:

Prep Date:

Result 4.7

LowLimit 94.3

LowLimit

%RPD

Qual

Chloride

Sample ID 1608956-002AMS

SampType: ms

TestCode: EPA Method 300.0: Anions

%REC

106

McCloy SWD #2

Batch ID: R36593

Analysis Date: 8/17/2016

PQL

5.0

RunNo: 36593 SeqNo: 1133324

Units: mg/L

HighLimit

117

%RPD

Qual

, Y, F

Analyte Chloride

SampType: msd

TestCode: EPA Method 300.0: Anions

Sample ID 1608956-002AMSD Client ID: McCloy SWD #2

Result

180

Result

180

Batch ID: R36593

RunNo: 36593

Units: mg/L

RPDLimit

Analyte Chloride

Prep Date:

Analysis Date: 8/17/2016

SPK value

50.00

5.000

SeqNo: 1133325

%REC LowLimit

HighLimit

%RPD

RPDLimit

Qual

5.0

SPK value SPK Ref Val 50.00

124.0

SPK value SPK Ref Val %REC

SPK Ref Val

124.0

107·

81.9

0.0837

20

Qualifiers:

ND

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- R RPD outside accepted recovery limits

Not Detected at the Reporting Limit

- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit Sample container temperature is out of limit as specified

Page 4 of 5

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1608956

29-Aug-16

Client:

Permits West

Project:

Rockcliff McCloy SWD

Sample ID MB-27062

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW

Batch ID: 27062

RunNo: 36650

Prep Date: 8/18/2016 Analysis Date: 8/20/2016

Units: mg/L

Analyte

SeqNo: 1135072

%RPD

Result ND

SPK value SPK Ref Val PQL 20.0

%REC LowLimit

HighLimit

RPDLimit

Qual

Total Dissolved Solids

Client ID: LCSW

Sample ID LCS-27062

SampType: LCS

RunNo: 36650

Analyte

Prep Date: 8/18/2016

Batch ID: 27062 Analysis Date: 8/20/2016

SeqNo: 1135073

TestCode: SM2540C MOD: Total Dissolved Solids

Units: mg/L

RPDLimit

%REC 103

LowLimit

HighLimit

Qual

Total Dissolved Solids

Result 1030 **PQL** 20.0

1000

SPK value SPK Ref Val

80

%RPD

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

S % Recovery outside of range due to dilution or matrix В Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits

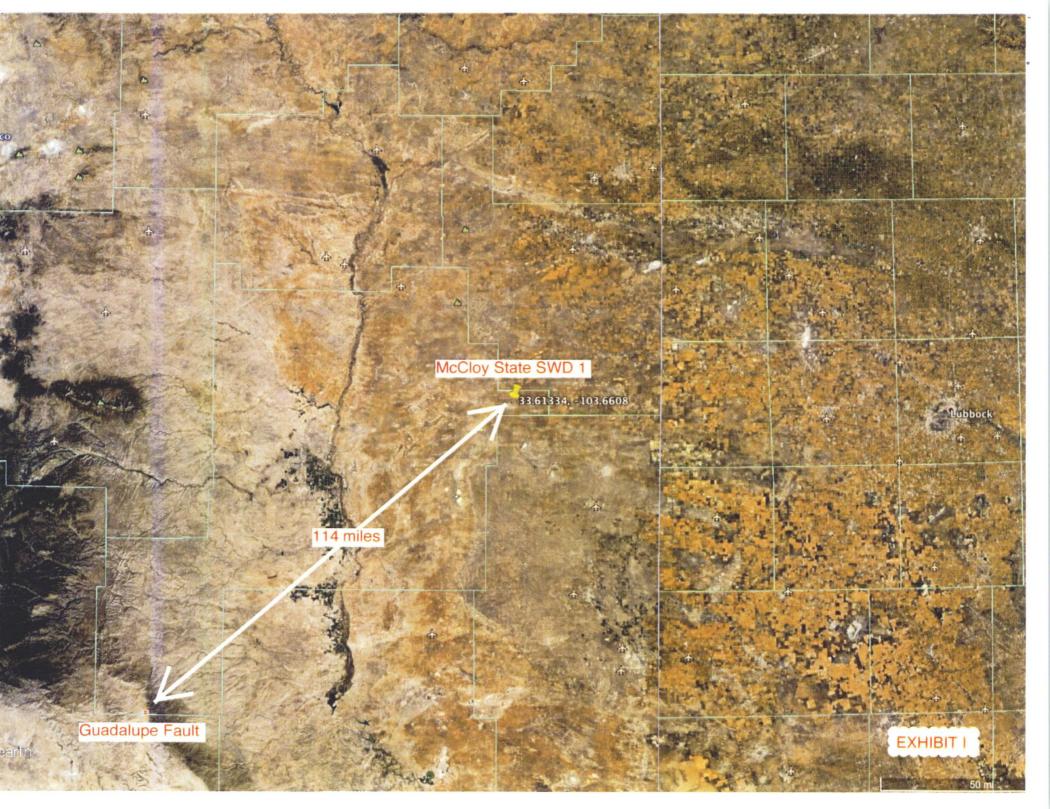
P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Page 5 of 5







August 23, 2016

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

RE: Geologic Statement
McCloy State SWD #1
Section 15-Township 8 South-Range 32 East
Chaves County, New Mexico

To whom it may concern:

Rockcliff Energy has reviewed all currently available geologic and engineering data related to the proposed well and no evidence for open faults or any other hydrological connection between the proposed deep Devonian injection zone, located at approximately 10,988' MD (-6601 ss), and any underground sources of drinking water has been found.

Regards,

Nanis Wallace Geologic Advisor

Rockcliff Energy LLC

Nom Waller

AFFIDAVIT OF PUBLICATION STATE OF NEW MEXICO

I, Erika Montoya Legals Clerk

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico do solemnly swear that the clipping hereto attached was published in the regular and entire issue of said paper and not in a supplement thereof for a period of:

One time with the issue dated

August 12, 2016

Cuka I landoy

Sworn and subscribed to before me

this 12th day of August, 2016

Notary Public

My Commission expires

June 13, 2018

Saltwater Disposal Well...

Publish August 12, 2016

Rockcliff Operating New Mexico LLC is applying to drift the McCloy-State SWD 1 as a saltwater disposal well. The well is staked at 220 FSL & 2080 FWL Sec. 15, T. 8 S., IR. 32 E., Chaves County and is 15 miles northnortheast of Caprock, NM. Disposal will be in the Siluro-Devonian from 10,000' to 12,000' Maximum disposal rate will be 20,000 bwpd. Interested parties must fille objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting: Brian Wood. Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508 Phone number is (505) 466-8120.





September 8, 2016

NM State Land Office PO Box 1148 Santa Fe NM 87504

Rockcliff Operating New Mexico LLC is applying (see attached application) to drill the McCloy State SWD 1 as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

Well: McCloy State SWD 1

ID = 11,400'

Proposed Disposal Zones: Devonian & Silurian (10,990' - 11,330')

Location: 220' FSL & 2080' FWL Sec. 15, T. 8 S., R. 32 E., Chaves County, NM

Approximate Location: 15 miles north-northeast of Caprock, NM

<u>Applicant Name:</u> Rockcliff Operating New Mexico LLC (713) 351-0500 <u>Applicant's Address:</u> 1301 McKinney, Suite 1300, Houston TX 77010

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

Please call me if you have any questions.

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you.	A Signeture X July Crashy Agent AGAddressee
Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (Printed Name) C. Date of Delivery
I. Article Addressed to:	D. Is delivery address different from item 1?
MSLO	
2. 0. Box 1148 Santa Fe NM 87504	
	3. Service Type □ Priority Mail Express® □ Adult Signature □ Adult Signature Restricted Delivery □ Registered Mail Restricted
9590 9403 0887 5223 6385 02 ROCKCliff — McCloy State SWD 1 Article Number (Transfer from service label)	☐ Certified Mail® Delivery ☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation ☐ Insured Mail Restricted Delivery ☐ Restricted Delivery

Sincerely,

Brian Wood

EXHIBIT K

STE OF NEW MOOD	C-108 Revie	w Checklist: Red	ceived	uest:	Reply Date:	Suspended: [Ver 15]
		~		er Date:	Legacy Permi	ts/Orders:
Well No	Well Name	(s): MCCLO	y state			·
API : 30-0 D	5-292	y Y Spud Date	TBD	New or Old:	(UIC Class II	Primacy 03/07/1982)
Footages	2060EM	Lot	or Unit <u>N</u> Sec <u>L</u>	Tsp 😯	<u> S</u> Rge <u>32៩</u>	County Chaves
General Location	on: 22014	:1-55m1	Cenna Pool: S	ind, de	vuolen-silen	2 Pool No.: 96845
BLM 100K Map	Elide	Down Operator: <u>NCW</u>	CLIFFOPEN, Mexicolll	OGRID:	: <u>3> / //5</u> Conta	Bni 4n woul;
		_	: Fincl Assur:		_	
		t Status:	, ,			
WELL DIAGRA	AMS: NEW: Proposed	d or RE-ENTER: E	Before Conv. () After C	Conv. C	ogs in Imaging:	WA
Planned Rehab			· · ·			
Well Cons	struction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)		Cement Sx or Cf	Cement Top and Determination Method
Planned	or ExistingSurface	11 514	500'	Stage Tool	305	Surper/Visual
and the state of the page	Existing Interm/Prod	143	4800		1670	Suppose Vision
Planned_or I	Existing interm/Prod	63417/1	10950	7900	1517	Surface/Visce
Planned_or	Existing Prod/Liner					
Plann	ned_or Existing Liner		A PARK TO SERVE TO THE SERVE TON THE SERVE TO THE SERVE TO THE SERVE TO THE SERVE TO THE SERVE T	100	A SHARW E CONTRACTOR OF THE SHARW E	
Planned or	Existing (OH)/ PERF	10910		Inj Length	Complet	ion/Operation Details:
	ostratigraphic Units:	1/55	njection or Confining	34p 1	Drilled TD	PBTD //3 3 0
Adjacent Unit	: Litho. Struc. Por.		Units M.S	10282	NEW TD	NEW PBTD
Confining Unit	t: Litho. Struc. Por.		ud	10803	i	or NEW Perfs
Propos	sed Inj Interval TOP:	Benjou		Dグ		in. Inter Coated?
	nj Interval BOTTOM:	180/19		M+		epth 10940 ft
	t: Litho. Struc. Por.	200 000 000 000 00000000000000000000000	·		·	10890 (100-ft limit)
	: Litho. Struc. Por.		er Andrews en a memorina al marcia de l'accident	- PARTE BRIDGES		ace Press. 2000 psi
AOR: Hydrologic and Geologic Information Admin. Inj. Press. 2/18 (0.2 psi per ft) POTASH: R-111-P Noticed? BLM Sec Ord WIPP Noticed? Salt/Salado T: B: NW: Cliff House fm						
POTASH: R-	-111-P <i>NJ -Noticed</i>	? BLM Sec Ord(→ WIPP () Noticed?_	Salt/Sal - 7	ado T:B: #87714-ass of a 1-a864	NW: Cliff House fm
 via lubulati (1999) a Papaga (1909). 	1990年 1988年 1、1995年1日 1913年1日 1、日本1975年 日	entiace of the broad for the second of the first action	50 LTM 1.69-79 (2006) (ACT OF CASE AND ACT OF	and the second s	MARIO PROMINENTALISMENT OF THE SECURITY OF THE	NT By Qualified Person
NMOSE Basin: Log () CAPITAN REEF: thru adj (NA) No. Wells within 1-Mile Radius?						
Disposal Flui	d: Formation Source((s) SA DEV				or Only O or Commercial
Disposal Int:	Inject Rate (Avg/Max	BWPD): 154 201	Protectable Water	rs? <u>///</u> So	ource:	System (Closed) or Open both
Disposal Int: Inject Rate (Avg/Max BWPD): 15 20 Protectable Waters? Source: System Closed or Open 15 HC Potential: Producing Interval? Formerly Producing? Method: Logs/DST/P&A/Other 2-Mile Radius Pool Map						
AOR Wells: 1/2-M Radius Map? Well List? Total No. Wells Penetrating Interval: Horizontals?						
Penetrating Wells: No. Active Wells Num Repairs? on which well(s)?						
Penetrating Wells: No. P&A Wells fum Repairs? on which well(s)?						
NOTICE: Ne	wspaper Date §12	-2016 Mineral O	wner N M 3LD	_ Surface O	wner Nusti	N. Date 4-8-20%
RUI F 26 7(A).	Identified Tracts?	V Affected Perso	ne black ()			NI Data Caracter Time
Order Condi	itions: Issues:	2-B-L 0	F 7" CA	sing	SUPFACE	
Add Order Cor	nd:					
2	OFFSETS	S.A. Proc	diction i	5 41	20 - 4255,	·.