Initial

Application Part I

Received 7/6/2021

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

KN7XV-210706-C-1080

RECEIVED: 7/6/21	REVIEWER:	TYPE: SWD	APP NO: pBL	2118842788			
	NEW MEXIC - Geologic 1220 South St. Fra	ABOVE THIS TABLE FOR OCD DIVISION USE O OIL CONSERVATION cal & Engineering Bure ancis Drive, Santa Fe,	N DIVISION eau – NM 87505	· · · · · · · · · · · · · · · · · · ·			
	KLIST IS MANDATORY FOR AL REGULATIONS WHICH REG	L ADMINISTRATIVE APPLICATIONS F QUIRE PROCESSING AT THE DIVISIO	OR EXCEPTIONS TO DI N LEVEL IN SANTA FE	VISION RULES AND			
Applicant:			ΟGRID Ι ΔΡΙ·	Number:			
Pool:			Pool Co	de:			
 SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW 1) TYPE OF APPLICATION: Check those which apply for [A] A Location Spacing Unit. Simultaneous Dedication 							
B. Check one of [1] Commin DH [1] Injection Wf	only for [1] or [1] gling – Storage – Ma IC CTB PL 1 – Disposal – Pressu 7X PMX SV	easurement .C PC OLS re Increase – Enhanced	DLM OII Recovery PPR	SWD-2437 FOR OCD ONLY			
2) NOTIFICATION REC A. Offset ope B. Royalty, c C. Application D. Notification E. Notification F. Surface on G. For all of the H. No notice	QUIRED TO: Check the rators or lease hold overriding royalty ow on requires published on and/or concurred on and/or concurred owner the above, proof of the required	those which apply. ders vners, revenue owners ed notice ent approval by SLO ent approval by BLM	tion is attached	Notice Complete Application Content Complete			
3) CERTIFICATION: I h administrative ap	nereby certify that t proval is accurate a	he information submitte and complete to the be	ed with this app est of my knowl	blication for edge. I also			

understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Ceslie T. Reeves Signature

Date

Phone Number

e-mail Address

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

		APPLICATION FOR A	AUTHORIZATION TO INJE	<u>CT</u>	
I.	PURPOSE: Application qualifies f	Secondary Recovery or administrative approval?	Pressure Maintenance Yes	Disposal No	Storage
II.	OPERATOR:				
	ADDRESS:				
	CONTACT PARTY:			PHONE:	
III.	WELL DATA: Compl Additio	ete the data required on the reverse onal sheets may be attached if nece	e side of this form for each well essary.	proposed for injection.	
IV.	Is this an expansion of If yes, give the Divisio	an existing project?	_YesNo oject:		
V.	Attach a map that iden drawn around each pro	ifies all wells and leases within tw posed injection well. This circle i	vo miles of any proposed injecti dentifies the well's area of revie	on well with a one-half mile	radius circle
VI.	Attach a tabulation of a data shall include a des of any plugged well ill	lata on all wells of public record w cription of each well's type, constr ustrating all plugging detail.	vithin the area of review which pruction, date drilled, location, de	penetrate the proposed injection and the propose	ion zone. Such nd a schematic
VII.	Attach data on the prop	oosed operation, including:			
	 Proposed average a Whether the system Proposed average a Sources and an app produced water; an If injection is for d chemical analysis wells, etc.). 	nd maximum daily rate and volun i is open or closed; ind maximum injection pressure; ropriate analysis of injection fluid id, isposal purposes into a zone not pr of the disposal zone formation wat	ne of fluids to be injected; I and compatibility with the rece roductive of oil or gas at or with ter (may be measured or inferred	iving formation if other than in one mile of the proposed v from existing literature, stu	reinjected well, attach a dies, nearby
*VIII.	Attach appropriate get Give the geologic nan dissolved solids conce be immediately under	blogic data on the injection zone in the, and depth to bottom of all under ntrations of 10,000 mg/l or less) of lying the injection interval.	ncluding appropriate lithologic or erground sources of drinking wa overlying the proposed injection	letail, geologic name, thickne ter (aquifers containing wate zone as well as any such sou	ess, and depth. rs with total irces known to
IX.	Describe the proposed	stimulation program, if any.			
*X.	Attach appropriate log	ging and test data on the well. (If	well logs have been filed with the	he Division, they need not be	e resubmitted).
*XI.	Attach a chemical anali injection or disposal we	vsis of fresh water from two or mo ell showing location of wells and c	ore fresh water wells (if availabl lates samples were taken.	e and producing) within one	mile of any
XII.	Applicants for dispose and find no evidence drinking water.	l wells must make an affirmative and open faults or any other hydrolo	statement that they have examin ogic connection between the disp	ed available geologic and en posal zone and any undergrou	gineering data und sources of
XIII.	Applicants must comp	ete the "Proof of Notice" section of	on the reverse side of this form.		
XIV.	Certification: I hereby belief.	certify that the information submit	ted with this application is true a	and correct to the best of my k	cnowledge and
	NAME:		TITLE	:	
	SIGNATURE:	eslie T. Reeves		DATE:	

E-MAIL ADDRESS: _

*

If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Side	1
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INJECTION WELL DATA SHEET

OPERATOR: _____

WELL NAME & NUMBER: _____

WELL LOCATION:

	FOOTAGE LOCAT	TION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
<u>WELL</u>	<u>BORE SCHEMATIC</u>			<u>WELL CO</u> Surface	<u>ONSTRUCTION DATA</u> Casing	<u>4</u>
OXY USA Inc Current West B ravo Dome Unit SWD #271 API No. 30-021-20540		Spud 07/06/2012 12-1/4" hole @ 776' 8-5/8" 24# csg @ 776' w/ 415sx-TOC-Surf-Circ.	Hole Size: Cemented with: Top of Cement:	sx. sx. 	Casing Size: or Method Determined te Casing	ft ³
		7-7/8" hole @ 2221' MD 5-1/2" 15.5# csg @ 2221' W 332sx-TOC-Surf-Circ.	Hole Size: Cemented with: Top of Cement:	sx. sx. 	Casing Size: or Method Determined	ft ³
		Perfs 2030'-2055' PBTD -2221'	Hole Size: Cemented with: Top of Cement: Total Depth:	SX.	Casing Size: <i>or</i> Method Determined	ft ³
	TD - 2221'V		F	PROPOSED Injection	Interval t to	

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tub	ing Size:Lining Material:								
Тур	Type of Packer:								
Pac	Packer Setting Depth:								
Oth	Other Type of Tubing/Casing Seal (if applicable):								
	Additional Data								
1.	Is this a new well drilled for injection?YesNo								
	If no, for what purpose was the well originally drilled?								
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.								
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:								

						•			
DISTRICT I 1025 N. French Dr., Hobbs, NN 663 DISTRICT II 1305 W. Grand Arenus, Artesia, NM DISTRICT III 1000 Rio Brazos Rd., Astec. NI	240 85210 M 87410	OIL	Energy, Mi CON 12 Saz	State c nerels and SERV 20 Sout nts Fe, 1	of New Natural ATI h St. Vew M	v Mexico Resources Departm ON DIVIS Francis Dr. 'exico 87505	ient Si ION	Fe Revised Ju admit one copy to Di	orm C-102 ly 18, 2010 oppropriate strict Office
DISTRICT IV 1220 S. SL. Francis Dr., Santa Fo, 2	NU 87505 T	WELL LO	CATION	AND A	CREA	GE DEDICATI	ON PLAT	A AMENDE	D REPORT
API Number 30-021-20540		9	Pool Code 8148]		SWD	Pool Name TUBR		
Property Code 325145	1	V	VIG	BRAIC	rty Nam	MEUNIT	SND	Well M 27	umber 1 F
$\begin{array}{c} O \\ O $			<u> </u>		tor Nam	i c		Eleve 433	uion 3'
	l		()^	Surfac	e Loca	tion			<u> </u>
UL or lot No. Section F 27	Township 18 N	Range 30 E	Lot Idn	Feet from	n the 50	North/South line NORTH	Feet from the 1650	East/West line WEST	County
		Bottom	Hole Lo	cation If	Diffe	rent From Sur	face		
UL or lot No. Section	Township	Range	Lot .ldn	Feet from	n the	North/South line	Feet from the	East/West line	County
Dedicated Acres Joint or	r Infill Cor	nsolidation (U	Code Or	rder No.	4				<u></u>
NO ALLOWABLE W	ILL BE AS	SIGNED	TO THIS	COMPLET	ION U	NTIL ALL INTER	ESTS HAVE BE	EN CONSOLID	ATED
			SURFAC Lat - N Long - W NMSPCE - (NAC	E LOCATION 35'45'48.91 103'44'38.61 1716152.2 			OPERATO i Aeroby con contained herrit into best of my interest or under land including location or had this toration put or to a voluntaon the disciplication or to a voluntaon the disciplication Bignature LSSUS Email Address SURVEYO I Arrity cortify on this plat up actual surveys Supervision and correct to the Date furverse Signature & Professional	R CERTIFICA Ry that the inform is frue and comp trowledge and belie n is frue audit comp trowledge and belie n distrown a work a right to drill this recent to a contract is man to a contract a contrac	FION notion ive to , and that the to the that the that well at with an ordered by 25/19 Date ES COXY.COM inclus of under my true and true and

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IV. EXPANSION OF AN EXISTING PROJECT?

YES. WE WOULD LIKE TO CHANGE IT TO THE YESO FORMATION. THE CURRENT SWD ORDER IS SWD-1385 FOR THE TUBB FORMATION.



West Bravo Dome Unit SWD #271 2-Mile AOR Map



Wells	s - Large Scale	¥	CO2, Temporarily Abandoned	,ď	Injection, Active	٠	Oil, Cancelled	۵	Salt Water Injection, New
?	undefined	☆	Gas, Active	,ď	Injection, Cancelled	•	Oil, New	۵	Salt Water Injection, Plugged
0	Miscellaneous	÷	Gas, Cancelled	ø	Injection, New	•	Oil, Plugged	۵	Salt Water Injection, Temporarily Abandoned
¥	CO2, Active	\$	Gas, New	ø	Injection, Plugged	•	Oil, Temporarily Abandoned	٠	Water, Active
∗	CO2, Cancelled	☆	Gas, Plugged	ø	Injection, Temporarily Abandoned	۵	Salt Water Injection, Active	6	Water, Cancelled
¥	CO2, New	*	Gas, Temporarily Abandoned	•	Oil, Active	Δ	Salt Water Injection, Cancelled	٠	Water, New
¥	CO2, Plugged								

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA, OCD, BLM



LIS	T OF WELL - 2-MILE AOR									
API NO.	WELL NAME	WELL TYPE	WELL STATUS	OPERATOR NAME	LOCATION	POOL CODE	POOL NAME	SPUD DATE	TOTAL DEPTH	COMPLETION DATE
3002120540	WEST BRAVO DOME UNIT SWD #271	SWD	ACTIVE	OXY USA INC.	F-27-18N-30E	98148	SWD; TUBB	7/6/2012	2221'	Feb-2013
3002120433	MITCHELL #271	CO2	CANCELLED APD	HESS CORPORATION	F-27-18N-30E	96387	WEST BRAVO DOME CO2 GAS			
3002120015	PRE-ONGARD WELL #001	GAS	PLUGGED	PRE-ONGARD WELL OPERATOR	G-28018N039E			1/1/1900	Plugged	
3002120430	WEST BRAVO DOME UNIT #221	CO2	ACTIVE	OXY USA INC.	G-22-18N-30E	96387	WEST BRAVO DOME CO2 GAS	6/24/2007	2210'	Feb-2009
3002120438	WEST BRAVO DOME UNIT #211	CO2	ACTIVE	OXY USA INC.	G-21-18N-30E	96387	WEST BRAVO DOME CO2 GAS	6/28/2007	2220'	Feb-2009

NO. OF COPIES RECEIVED DISTRIBUTION SANTA FE		1	Dreviously Mitche				
DISTRIBUTION						🗢 Form	C-105
SANTA FE 11						Revis	sed 1-1-65
					·.	5a. Indice	ate Type of Lease
EU E		NEW I	MEXICO OIL CO	NSERVATION (State	Fee X
HILE A		ELL COMPLE	ETION OR REC	OMPLE HON	REPORT AN	D LUG <u>cu</u> 5. State (Dil & Gas Lease No.
						11117	
OPERATOR						////#	
						7. Unit A	Agreement Name
	01L	GAS		1			
b. TYPE OF COMPLETI	WEL	WELL WELL		OTHER	· · ·	8, Farma	or Lease Name
NEW (WORK		PLUG	DIFF.	7		1	(tchell
2 Name of Operator	DEEPE	BACK	RESVR.	OTHER		9. Well N	IO.
		(1) TON					15
S. E. C	CORPORA	TION				10. Field	and Pool, or Wildcat
	00 00 00	TANO NELL	MENTOO 8771	6			1189 3 4
F. U. E	DUA 37, DU	LATINO, MEN	PEALOO OTTA				
4. Location of well							
0		2205	Vent		1920		
UNIT LETTER	LOCATED	5505 FEET F	ROM THE	LINE AND	FE FE	ET FROM	<i>"~~~//////////////////////////////////</i>
Margaret In	20	1 ort	20th E		///X////	Hand	
THE NOTTA LINE OF SE	с. 20 т	NP. LOF * RG	SE. JONE NMP				me VIIIII
15. Date Spudded	16. Date T.D. R	eached 17. Date	e Compl. (Ready to	Prod.) 18. Ele	evations (DF, KF	(B, RI, GR, etc.)	19, Elev. Cashinghead
3/9/71	3/13/71			433			
20. Total Depth	21. Plue	g Back T.D.	22. If Multi Many	ple Compl., How	23. Intervals Drilled B	y + A 21 A2	
2108							
24. Producing Interval(s),	of this complet	ion - Top, Botton	m, Name				Made
None							No
							140
26. Type Electric and Oth	ner Logs Run					27	, Was Well Cored
Induction - El	ectric & (lamma Ray -	- Acoustic				No
28.		CA	SING RECORD (Re	eport all strings s	set in well)		
CASING SIZE	WEIGHT LB.	FT. DEPT	HSET HO	DLESIZE	CEMENT	ING RECORD	AMOUNT PULLED
10-3/4	32.75	15	56 13-	-3/4	180 Sax		None
29.	L	INER RECORD			30.	TUBING R	ECORD
29. SIZE	TOP	INER RECORD	SACKS CEMENT	SCREEN	30. SIZE	TUBING R	ECORD PACKER SET
29. SIZE	L TOP	INER RECORD	SACKS CEMENT	SCREEN	30. SIZE	TUBING R	ECORD PACKER SET
29. SIZE	TOP	INER RECORD BOTTOM	SACKS CEMENT	SCREEN	30. SIZE	TUBING R DEPTH SET	ECORD PACKER SET
29. SIZE 31. Perforation Record (In	TOP nterval, size and	INER RECORD BOTTOM	SACKS CEMENT	SCREEN	30. SIZE CID, SHOT, FRA	TUBING R DEPTH SET	ECORD PACKER SET
29. SIZE	L TOP nterval, size and	INER RECORD BOTTOM l number)	SACKS CEMENT	32. A	30. SIZE CID, SHOT, FRA	TUBING R DEPTH SET	ECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED
29. SIZE	L TOP nterval, size and	INER RECORD BOTTOM	SACKS CEMENT	32. A	30. SIZE CID, SHOT, FRA	TUBING R DEPTH SET	ECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED
29. SIZE	L TOP nterval, size and	INER RECORD BOTTOM I number)	SACKS CEMENT	32. A	30. SIZE CID, SHOT, FRA NTERVAL	TUBING R DEPTH SET	ECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED
29. SIZE	L TOP nterval, size and	INER RECORD BOTTOM	SACKS CEMENT	32. A	30. SIZE CID, SHOT, FRA	TUBING R DEPTH SET	ECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED
29. SIZE	L TOP nterval, size and	INER RECORD BOTTOM	SACKS CEMENT	32. A	30. SIZE CID, SHOT, FRA NTERVAL	TUBING R DEPTH SET	ECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED
29. SIZE	L TOP nterval, size and	INER RECORD BOTTOM	SACKS CEMENT	32. A DEPTH II	30. SIZE CID, SHOT, FRA NTERVAL	TUBING R DEPTH SET	ECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED
29. SIZE	L TOP nterval, size and Produ	INER RECORD BOTTOM I number)	PRC powing, gas lift, pun	32. A DEPTH II	30. SIZE CID, SHOT, FRA NTERVAL	TUBING R DEPTH SET	ECORD PACKER SET SOUEEZE, ETC. KIND MATERIAL USED
29. SIZE 31. Perforation Record (In 33. Date First Production	TOP nterval, size and	INER RECORD BOTTOM I number)	PRC pwing, gas lift, pun	32. A DEPTH II	30. SIZE CID, SHOT, FRA NTERVAL	TUBING R DEPTH SET	ECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED
29. SIZE 31. Perforation Record (In 33. Date First Production Date of Test	TOP nterval, size and Produ Hours Tested	INER RECORD BOTTOM I number)	PRC pwing, gas lift, pun Prod ⁴ n. For	SCREEN 32. A DEPTH II DDUCTION mping – Size and OII – Bbl.	30. SIZE CID, SHOT, FRA NTERVAL type pump) Gas – MCF	TUBING R DEPTH SET	ECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED atus (Prod. or Shut-in) Gas - Oil Ratio
29. SIZE 31. Perforation Record (In 33. Date First Production Date of Test	L TOP Interval, size and Produ Hours Tested	INER RECORD BOTTOM I number)	PRC prod*n. For Test Period	SCREEN	30. SIZE CID, SHOT, FRA NTERVAL type pump) Gas - MCF	TUBING R DEPTH SET	ECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED atus (Prod. or Shut-in) Gas-Oil Ratio
29. SIZE 31. Perforation Record (In 33. Date First Production Date of Test Flow Tubing Press.	TOP nterval, size and Produ Hours Tested Casing Pressur	INER RECORD BOTTOM I number)	PRC prod'n. For Test Period 24- Oil - Bbl.	SCREEN	30. SIZE CID, SHOT, FRA NTERVAL type pump) Gas – MCF	TUBING R DEPTH SET	ECORD PACKER SET SOUEEZE, ETC. KIND MATERIAL USED atus (Prod. or Shut-in) Gas - Oil Ratio Oil Gravity - API (Corr.)
29. SIZE 31. Perforation Record (In 33. Date First Production Date of Test Flow Tubing Press.	TOP nterval, size and Produ Hours Tested Casing Pressur	INER RECORD BOTTOM I number) I number) Choke Size e Calculated 2 Hour Rate	PRC pwing, gas lift, pun Prod'n. For Test Period	SCREEN	30. SIZE CID, SHOT, FRA NTERVAL type pump) Gas - MCF	TUBING R DEPTH SET	ECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED atus (Prod. or Shut-in) Gas - Oil Ratio Oil Gravity - API (Corr.)
29. SIZE 31. Perforation Record (In 33. Date First Production Date of Test Flow Tubing Press. 34. Disposition of Gas (S	L TOP Interval, size and Produ Hours Tested Casing Pressur Fold, used for fu	INER RECORD BOTTOM I number) I number) Choke Size Choke Size Hour Rate	PRC pwing, gas lift, pun Prod ⁴ n. For Test Period Oil – Bbl.	SCREEN	30. SIZE CID, SHOT, FRA NTERVAL type pump) Gas – MCF	TUBING R DEPTH SET	ECORD PACKER SET SOUEEZE, ETC. KIND MATERIAL USED atus (Prod. or Shut-in) Gas - Oil Ratio Oil Gravity - API (Corr.) ed By
29. SIZE 31. Perforation Record (In 33. Date First Production Date of Test Flow Tubing Press. 34. Disposition of Gas (S	TOP nterval, size and Produ Hours Tested Casing Pressur fold, used for fur	INER RECORD BOTTOM I number) I number) Choke Size Choke Size Choke Size Choke Size	PRC PRC owing, gas lift, pun Prod*n. For Test Period 24- Oil – Bbl.	SCREEN 32. A DEPTH II DDUCTION mping – Size and OII – Bbl. Gas – MC	30. SIZE CID, SHOT, FRA NTERVAL type pump) Gas - MCF	TUBING R DEPTH SET	ECORD PACKER SET SOUEEZE, ETC. KIND MATERIAL USED atus (Prod. or Shut-in) Gas - Oil Ratio Oil Gravity - API (Corr.) ed By
29. SIZE 31. Perforation Record (In 33. Date First Production Date of Test Flow Tubing Press. 34. Disposition of Gas (S 35. List of Attachments	TOP nterval, size and Produ Hours Tested Casing Pressur fold, used for fu	INER RECORD BOTTOM d number) d number) d number) ction Method (Fla Choke Size e Calculated 2 Hour Rate	PRC PRC pwing, gas lift, pun Prod*n. For Test Period 24- Oil – Bbl.	SCREEN 32. A DEPTH II DDUCTION mping – Size and Oil – Bbl. Gas – MC	30. SIZE CID, SHOT, FRANTERVAL type pump) Gas - MCF CF Wate	UBING R DEPTH SET ACTURE, CEMENT AMOUNT AND Well St Water - Bbl. pr - Bbl. Test Witnesse	ECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED atus (Prod. or Shut-in) Gas - Oil Ratio Oil Gravity - API (Corr.) ad By
29. SIZE 31. Perforation Record (In 33. Date First Production Date of Test Flow Tubing Press. 34. Disposition of Gas (S 35. List of Attachments	TOP nterval, size and Produ Hours Tested Casing Pressur fold, used for fu	INER RECORD BOTTOM I number) i number) i number) i ction Method (Fla Choke Size Calculated 2 Hour Rate	PRC PRC pwing, gas lift, pun Prod'n. For Test Period 24- Oil – Bbl.	SCREEN 32. A DEPTH II DDUCTION mping – Size and OII – Bbl. Gas – MC	30. SIZE CID, SHOT, FRANTERVAL type pump) Gas – MCF	TUBING R DEPTH SET	ECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED atus (Prod. or Shut-in) Gas - Oil Ratio Oil Gravity - API (Corr.) ed By
29. SIZE 31. Perforation Record (In 33. Date First Production Date of Test Flow Tubing Press. 34. Disposition of Gas (S 35. List of Attachments 36. I hereby certify that t	TOP nterval, size and Produ Hours Tested Casing Pressur fold, used for fur the information s	INER RECORD BOTTOM I number) I number) Choke Size Choke Size Calculated 2 Hour Rate	PRC pwing, gas lift, pun Prod'n. For Test Period Prod'n. For Test Period Prod'n. For Test Period	SCREEN 32. A DEPTH II DDUCTION mping – Size and OII – Bbl. Gas – MC	30. SIZE CID, SHOT, FRA NTERVAL type pump) Gas – MCF CF Wate to the best of m	TUBING R DEPTH SET ACTURE, CEMENT AMOUNT AND Well St water - Bbl. pr - Bbl. Test Witnesse y knowledge and be	ECORD PACKER SET SOUEEZE, ETC. KIND MATERIAL USED atus (Prod. or Shut-in) Gas - Oil Ratio Oil Gravity - API (Corr.) ad By lief.
29. SIZE 31. Perforation Record (In 33. Date First Production Date of Test Flow Tubing Press. 34. Disposition of Gas (S 35. List of Attachments 36. I hereby certify that t	TOP nterval, size and Produ Hours Tested Casing Pressur fold, used for fun- the information of	INER RECORD BOTTOM I number) I number) I number) Choke Size Choke Size Calculated 2 Hour Rate el, vented, etc.)	PRC prod'n. For Test Period Prod'n. For Test Period Prod'n. For Test Period	SCREEN	30. SIZE CID, SHOT, FRA NTERVAL type pump) Gas - MCF CF Wate to the best of m	TUBING R DEPTH SET ACTURE, CEMENT AMOUNT AND Well St Water - Bbl. pr - Bbl. Test Witnesse y knowledge and be	ECORD PACKER SET SOUEEZE, ETC. KIND MATERIAL USED atus (Prod. or Shut-in) Gas - Oil Ratio Oil Gravity - API (Corr.) ad By lief.
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30-021-20015 Pre-Ongard Well # 1 -Previously Mitchell 15

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

Т.	Anhy	Т.	Canyon	r.	Ojo Alamo	т.	Penn. "B"
т.	Salt	T.	Strawn	Τ.	Kirtland-Fruitland	Т.	Penn. "C"
В.	Salt	T.	Atoka	Т.	Pictured Cliffs	Т.	Penn. ''D''
Т.	Yates	T.	Miss	Τ.	Cliff House	T.	Leadville
т.	7 Rivers	T.	Devonian	Т.	Menefee	Т.	Madison
Т.	Queen	T.	Silurian	т.	Point Lookout	Т.	Elbert
Т.	Grayburg	T.	Montoya	Т.	Mancos	Т	McCracken
т.	San Andres	T.	Simpson	Т.	Gallup	т.	Ignacio Otzte
т.	Glorieta 1449	т.	МсКее	Bas	e Greenhorn	т. Т	Granite
т.	Paddock	Т.	Ellenburger	т	Dakota	т. Т	
т.	Blinebry	Т.	Gr. Wash	т	Morrison	т. Т	
Τ.	Tubb	Т.	Granite	т. Т	Todilto	т. Т	
т.	Drinkard	Т.	Delaware Sand	т. Т	Entrada	т. Т	
т.	Abo 1958	Т.	Bone Springs	т. Т	Wingste	т. Т	
Т.	Wolfcamp	Т.		т. Т	Chinle	т. Т	······································
т.	Penn	 Т		т. Т	Demion	1 T	
т	Cisco (Bough C)	т.		T.	Penn. ''A''	т	

FORMATION RECORD (Attach additional sheets if necessary)

From	То	Thickness in Feet	Formation	From	То	Thickness in Feet	Formation
0 1217 1449	1217 1449	1217 232	Chinle & Santa Rosa SS San Andres Glorieta SS &				· · · · · · · · · · · · · · · · · · ·
1940	1940 1958	491 18	Yeso Anhydrite Marker				
195 8	2 10 8	150	Abo				
			DST #1 1948' - 2108'				
			Open 20 min., ISI 60 min. Good blow declining to we Recovered 620' of water of FFP 270 psi, ISIP 689 psi	Flow ak blow ut mud FSIP	60 min at en 616 ps	., FSI d of to i - Bu	60 min. est. ilding

		30-021-20015 Pre-Ongard Well # 1 -	
NO. OF COPIES RECEIVED		Previously Mitchell 15	0 10
DISTRIBUTION			Form C-103
SANTA FE	1.7	NEW MEXICO OUL CONSERVATION COMMISSION	C-102 and C-103
FILE	+~	MEN MERICO OLE CONSERVATION COMMISSION	Effective 1-1-65
U.S.G.S.			5g. Indicate Type of Lagse
LAND OFFICE	-		
OPERATOR			5. State Oil & Gas Lease No.
(DO NOT USE THIS FORM USE "AF	UNDR	Y NOTICES AND REPORTS ON WELLS	•
	٦		7. Unit Agreement Name
WELL WELL		OTHER- Dry Hole	
2. Name of Operator			8. Farm or Lease Name
S. E. C. CORPOR	ATIO	N	Mitchell
3. Address of Operator	_		9. Well No.
P. 0. Box 37, S	olan	o, New Mexico 87746	#15
4. Location of Well	, 7	:	10. Field and Pool, or Wildcat
UNIT LETTERG	. <u>_33</u>	05FEET FROM THE West LINE AND 1980 FEET ED	Wildcat
		<i>i</i>	
THE North LINE,	SECTIO	N <u>28</u> TOWNSHIP <u>1818</u> // RANGE 30 N / NME	AIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
			<u> </u>
	////	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
16.	7117	4347 GL	Harding
Ch	eck A	appropriate Box To Indicate Nature of Notice, Report or (ther Data
NOTICE	OF IN	TENTION TO: SUBSEQUE	NT REPORT OF:
· · · · · · · · · · · · · · · · · · ·			
PERFORM REMEDIAL WORK		PLUG AND ABANDON X REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON		COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING		CHANGE PLANS CASING TEST AND CEMENT JOB	
		OTHER	
		L_]	
17. Describe Proposed or Comple work) SEE RULE 1103.	ted Ope	erations (Clearly state all pertinent details, and give pertinent dates, includi	ng estimated date of starting any proposed

On 3/9/71 drilled to 156' and set 147' of 10-3/4", 32.75# casing with 180 Sax Class "C" cement. Cement circulated to surface. Drilled to 2108' on 3/13/71 to plug & abandon.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED

TITLE Mgr., CO2 Production

<u>3/19/71</u> DATE

5 :

ROVED CONDITIONS ON APPROVAL IF ANY:

TITLE al & Jas Impector

1/23/73

Previousiv Mitchell 15	
NO. OF COPIES RECEIVED	Form C-103
DISTRIBUTION	Supersedes Old
SANTA FE	Effective 1-1-65
U.S.G.S.	5a. Indicate Type of Lease
	State Fee XX
OPERATOR	5. State Oil & Gas Lease No.
GR CONSERVATION COMM	
SUNDRY NOTICES AND REPORTS ON WELLS SOME THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.	
1	7. Unit Agreement Name
OIL GAS WELL OTHER- Dry Hole	
2. Name of Operator	8. Farm or Lease Name
S.E.C. Corporation	Mitchell
3. Address of Operator	9. Well No.
P. O. Box 9737, El Paso, Texas	15
4. Location of Well	10. Field and Pool, or Wildcat
UNIT LETTER G 3305 FEET FROM THE West LINE AND FEET FROM	Wildcat
North 28 18N 30F	AIIIIIIIIIIIIIIIIIIIII
THE RANGE NOT LINE, SECTION TOWNSHIP RANGE NMPM.	
Control Character (Show whather DE, PT, CP, etc.)	
h347 Cround Lovol	Harding
	indiating ())))))
NOTICE OF INTENTION TO: SUBSEQUENT	REPORT OF:
TEMPORARILY ABANDON COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING	•
OTHER	[
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Plugged and abandoned as follows: Spotted 5 sax cement at bottom of hole Spotted 25 sax cement from 95' to 145' Filled to surface with drilling mud Dumped 5 sax cement at top of surface pipe, and set 4" diameter marker above the hole. Filled in pits, cleaned and leveled loce	estimated date of starting any proposed
отнея	estimated date of starting any proposed
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ce la J. .

Mgr. Technical Services June 11, 1973

teina APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

TITLE al # Jas mapicta DATE 7/23/73



TD - 2108' TVD

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be disposed.

Average daily rate: 200BWPD Maximum daily rate: 800BWPD

- 2. Whether the system open or closed. This is a closed system.
- 3. Proposed average and maximum injection pressure Average injection pressure: 900psig Maximum injection pressure: 1200psig
- 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjection produced water See attached water analysis of the offset well. Sources of injection fluid will be Tubb formation produced water. The proposed SWD will be completed in the YESO formation so waters are compatible.
- 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

See attached water analysis of the offset well. This is a representative same of the injection fluid. Also included an analysis with a Yeso swab test.

Test, water analysis, swab from offset Mitchell 1830 09F (30-021-20494)



Test, water analysis, swab from offset Mitchell 1830 09F (30-021-20494) 2,500 2,000 1,500



Test, water analysis, swab from offset Mitchell 1830 09F (30-021-20494)

Company: HESS Cor	poration	Lease typ	e: State	Date:	12/02/2008						
Well API NO. 30-021	-20120	Lease Nar	ne: State DN (West Bravo Dome	unit #001						
Formation: TUBB		Well Num	ber: 1								
		Pool: We	Pool: West Bravo Dome CO2 Gas 96387								
Unit Letter: K Sect	ion: 16	Township	: 18N Range	e: 30E County: Ha	arding						
Time:	Water Source:	WBD 1830)-161K								
TOTAL DISSOLVED SOLID	IS:										
	Column 1		Column 2		Column 3						
	mg/l as compo	und	mg/I as ions		meg/I						
CATIONS											
. Sodium*			9,578	as Na+ = 23.0 X	416.4						
3. Total hardness, as CaCO3 =	8,800										
 Calcium, as CaCO3 = 	4,350	X 0.400 =	1,740	_as Ca++ X 0.050 =	87.0						
). Magnesium, as CaCO3 =	4,450	X 0.243 =	1,081	as Mg++ X 0.0823 =	89.0						
. Barium, as BaSO4 =		X 0.589 =		as Ba++ X 0.0146 =	0.0						
				Subtotal	176.0						
F. Total Cations =			12,399		592.4						
ANIONS											
G. Chloride, as NaCl =	23,723	X 0.607 =	14,400	as CI- X 0.0282 =	406.1						
I. Sulfate, as Na2SO4 =	7,988	X 0.676 =	5,400	as SO4= X 0.0208 =	112.3						
Carbonate, as CaCO3 =		X 0.600 =		as CO3= X 0.0333 =	0.0						
. Bicarbonate, as CaCO3* =	3,700	X 1.220 =	4,514	as HCO3- X 0.0164=	74.0						
K. Total Anions =			24,314		592.4						
Total Dissolved Solids			36,713								
A. Total Iron, as Fe			-								
N. Acidity to Phen., as CaCO3	0	X 0.440 =		as CO2							
OTHER PROPERTIES	ð:										
P. Sulfide, as H2S	0		T. Turbidity								
0. Oxvgen, as O2		-	U. Temperature, F	70.0							
R pH	6.69		V. Specific Gravity	1.025							
S. Conductivity (mS/cm)	40,500		W. Resistivity	0.25							
(. TDS (g/L)		-	(10,000 / Conduct.)		77.63 c 71*1						
Comments:	Sample was clo	udy. It filter	red clear.								
			*Sodium calcula	ated by meg/l differ	ence not analyzed						
		and address of the state of the second	oodidiin oolodiid	*Bicarbonate calculate	ed from "M" alkalinity						
District / Area:	· · · · · ·			Analyst:	H. Norton						
Directions:	Test results entered in th	nese cells									
Step 1:	Complete tests in C	olumn 1 and "	Other Properties."								
Step 2:	Complete the multip	olication steps	for Columns 2 & 3, e	except A							
Step 3:	In Column 3, add C	, D, E to get s	ubtotal. In Column 3	, add G, H, I &J and ent	er total in 3K.						
Step 4:	Subtract subtotal fro and enter in 3F.	om 3K and ent	ter difference in 3A.	In Column 3, add 3A to	subtotal						
Step 5:	Multiply 3A by 23.0	and enter in 2	A								
Step 6:	Add Column 2 Catio	ons to get Tota	al in 2F. Add Anions	to get Total in 2K. Add	2F and 2K						

Yeso Swab Test Results

On 5/21/09 well Mitchell 1830-092F was drilled out to 1700' with fresh water and a packer was run and set below the Glorietta perforations with tailpipe to ~25' off bottom.

On 5/22/09 the well was swabbed back and samples were taken. After the calculated tubing volume and annulus volume (below packer) were swabbed back the well went dry and no more fluid was recovered. The packer was unset and re-set with the tubing within 1 foot of bottom. The well was again swabbed dry after recovering the tubing and annulus volumes. The well was left open to atmosphere for 1 hour between swab runs with all the swab attempts coming back dry. The well was then shut-in over night.

On 5/23/09 the crew arrived on location to find ~ 80psi of gas pressure on the well and bled it off. The first swab run returned less than 1 barrel of water and all subsequent runs were dry. At this point the crew pulled the tubing and packer from the hole and re-ran the packer with out tail pipe to perform a pump in test.

All samples were field tested for chloride levels and the samples obtained on 5/22/09 were tested for TDS levels by Cardinal Laboratories in Hobbs, NM. All field chloride tests were done by titration with mercuric nitrate and titrated after one drop indicating that the chlorides were less than 1,000 mg/L. Cardinal's TDS tests are attached and show the same results of less than 1,300 mg/L of total dissolved solids. These tests along with swabbing the well dry, waiting and swabbing again seem to show that the Yeso formation will not deliver any formation water and that all fluids recovered were the fresh water that was used for drilling and well control.

As reference points the fluid recovered from the Glorietta formation during swabbing attempts in January were determined to be ~ 6,000 mg/L of total dissolved solids and produced water from the underlying Tubb formation have TDS levels ranging from 23,000 mg/L to 64,000 mg/L.

Fit on

Test, water analysis, swab from offset Mitchell 1830 09F (30-021-20494)



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR HESS CORPORATION ATTN: ROBERET PONVILLE P.O. BOX 840 SEMINOLE, TX 79360 FAX TO: (432) 758-6768

Receiving Date: 05/22/09 Reporting Date: 05/26/09 Project Number: NOT GIVEN Project Name: SWD YESO TEST Project Location: WEST BRAVO DOME Sampling Date: 05/22/09 Sample Type: WASTEWATER Sample Condition: COOL & INTACT @ 2.5°C Sample Received By: 05/22/09 Analyzed By: HM

> TDS (mg/L)

LAB NUMBER SAMPLE ID

Analysis Date:		05/	23/09
H17485-1	1		675
H17485-2	2		1,130
H17485-3	4		1,280
H17485-4	5		1,050
Quality Control			NR
True Value QC			NR
% Recovery			NR
Relative Percent	Difference		0.3

METHOD: EPA 600/4-79-020	 160.1
. A	 **************************************

Chemist

05/210/09

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims inclusion based by Cardinal within thirty (30) days after completion of the applicable service, in no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, atfliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of watting is based upon any of the anove-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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AR	DINAL LABORATORIES	
·····	101 East Marland, Hobbs, NM 88240	

	(575) 393-2326 Fax (575) 393-2	476	;																		Page_	01			
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Project Manager:	Robert Ponella							P.0	. #:			<u> </u>	*****	T	[1	T	T	1	Γ				
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Geologic Summary

The West Bravo Dome Unit is located in an area of low geologic risk. This carbon dioxide gas field has been producing since 2008 with no nearby hydrocarbon production. Saltwater has been disposed into the MITCHELL SWD #092F in the Yeso Formation since 2009, and in WEST BRAVO DOME UNIT SWD #271 in the Tubb Formation since 2013. Occidental would like to recomplete the WEST BRAVO DOME UNIT SWD #271, changing the injection interval from the Tubb Formation to the Yeso Formation. Faulting in the area is minimal, and it is seismically quiet with no natural or induced seismic activity. Water wells in Harding County are confined to shallow formations. All water wells in Harding County are less than 500 ft deep, more than 1000 ft above the proposed injection interval.

Overlying Zone: Glorieta

Geological Name: Glorieta

Depth: 1440 ft MD

Thickness: 110 ft MD

Lithological Detail: white, fine to medium-grain quartzose sandstone of probable shallow marine environment. Average porosity is 13%.

Source of Fresh Water: The Glorieta Formation is not a source of fresh water. (No wells in the surrounding area are using Glorieta as a fresh water source)

Hydrocarbon productivity: There are no hydrocarbons in this zone.

Injection Zone: Yeso

Geological Name: Yeso (Clearfork Group)

Depth: 1550 ft MD

Thickness: 400 ft MD

Lithological Detail: very fine to medium-grain quartzose sandstone, inter-fingering with very fine shales. Average porosity is 8%.

Source of Fresh Water: The Yeso Formation is not a source of fresh water.

Hydrocarbon productivity: There are no hydrocarbons in this zone.

Underlying Zone: Cimarron

Geological Name: Cimarron Anhydrite

Depth: 1950 ft MD

Thickness: 15 ft MD

Lithological Detail: Tight anhydrite with rare limestone and dolomite. Porosity is extremely low (less than 1%)

Source of Fresh Water: The Cimarron Formation is not a source of fresh water.

Hydrocarbon productivity: There are no hydrocarbons in this zone.

Induced Seismicity

The proposed injection well is located in an area with low seismic activity and limited basement faulting. Despite ongoing water disposal in the area, there has been no natural or induced seismic activity.



Proposed Injection Interval (1600 ft - 1940 ft)

IX.

OXY USA INC. (16696) WEST BRAVO DOME UNIT SWD #271 API: 30-021-20540 POOL: WEST BRAVO DOME CO2 GAS (96387)

STIMLUATION PLAN

The stimulation plan for this well is to perforate, install the packer and test. We will see if the well will take water naturally. If the rate is less than we anticipate, we will pump 15% Hydrochloric Acid down the tubing and into the perforations at or below the requested maximum pressure.

X.

X. Attach appropriate logging and test data on the well.

Log and well data previously submitted.

XI. Chemical analysis of fresh water

FILED WITH PREVIOUS APPLICATION SWD-1385



November 13, 2012

DANNY HOLCOMB Hess Corporation

P.O. Box 1570

Seminole, TX 79360

RE: WEST BRAVO DOME

Enclosed are the results of analyses for samples received by the laboratory on 11/02/12 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list on accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Hess Corporation P.O. Box 1570 Seminole TX, 79360		Project: Project Number: Project Manager: Fax To:	WEST BRAVO DOME WBD DANNY HOLCOMB (432) 758-6715	Reported: 13-Nov-12 16:18
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FITZGERALD 1830-34 \	WINIH202684-01	Water	02-Nov-12 09:00	02-Nov-12 16:00

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Hess Corporation	Project:	WEST BRAVO DOME	Reported:
P.O. Box 1570	Project Number:	WBD	13-Nov-12 16:18
Seminole TX, 79360	Project Manager:	DANNY HOLCOMB	
	Fax To:	(432) 758-6715	

FITZGERALD 1830-34 WINDMILL H202684-01 (Water)

			`	·					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborat	ories					
Inorganic Compounds									
Alkalinity, Bicarbonate	1330	5.00	mg/L	1	2110104	HM	12-Nov-12	310.1	
Calcium	14.4	1.60	mg/L	1	2101718	НМ	13-Nov-12	SM3500Ca- D	
Alkalinity, Carbonate	320	0.00	mg/L	1	2110104	HM	12-Nov-12	310.1	
Chloride*	44.0	4.00	mg/L	1	2103007	HM	05-Nov-12	4500-Cl-B	
Conductivity*	3240	1.00	uS/cm	1	2110809	HM	08-Nov-12	120.1	
Magnesium	8.75	1.00	mg/L	1	2101718	HM	13-Nov-12	SM3500Mg- E	
pH*	8.70	0.100	pH Units	1	2110809	HM	08-Nov-12	150.1	
Potassium	4.50	1.00	mg/L	1	2101718	HM	13-Nov-12	HACH 8049	
Sodium	902	1.00	mg/L	1	2101718	HM	13-Nov-12	Calculation	
Sulfate*	339	10.0	mg/L	1	2110603	AP	06-Nov-12	375.4	
TDS*	2220	5.00	mg/L	1	2103009	HM	05-Nov-12	160.1	
Alkalinity, Total*	1650	4.00	mg/L	1	2110104	HM	12-Nov-12	310.1	

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Analytical Results For:

Hess Corporation P.O. Box 1570	Project: Project Number:	WEST BRAVO DOME WBD	Reported: 13-Nov-12 16:18
Seminole TX, 79360	Project Manager:	DANNY HOLCOMB	
	Fax To:	(432) 758-6715	

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Snike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2101718 - *** DEFAULT PREP ***										
Blank (2101718-BLK1)				Prepared: 1	17-Oct-12 A	nalyzed: 0	9-Nov-12			
Calcium	ND	1.60	mg/L							
Magnesium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
LCS (2101718-BS1)				Prepared:	17-Oct-12 A	nalyzed: 0	9-Nov-12			
Calcium	20.8		mg/L	20.0		104	80-120			
Magnesium	54.4		mg/L	50.0		109	80-120			
Potassium	3.00		mg/L	3.00		100	80-120			
Duplicate (2101718-DUP1)	Source: H202593-01			Prepared:	17-Oct-12 A	nalyzed: 0	9-Nov-12			
Calcium	6710	1.60	mg/L	6410				4.57	20	
Magnesium	1820	1.00	mg/L	1880				3.24	20	
Potassium	540	1.00	mg/L	540				0.00	20	
Batch 2103007 - General Prep - Wet Chem										<u> </u>
Blank (2103007-BLK1)				Prepared &	Analyzed:	30-Oct-12				
Chloride	ND	4.00	mg/L							
LCS (2103007-BS1)				Prepared &	Analyzed:	30-Oct-12				
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (2103007-BSD1)				Prepared & Analyzed: 30-Oct-12						
Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	
Batch 2103009 - Filtration										
Blank (2103009-BLK1)			*	Prepared &	z Analyzed:	30-Oct-12				
TDS	ND	5.00	mg/L							

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Analytical Results For:

Hess Corporation P.O. Box 1570 Seminole TX, 79360	Project: Project Number: Project Manager: Fax To:	WEST BRAVO DOME WBD DANNY HOLCOMB (432) 758-6715	Reported: 13-Nov-12 16:18
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Inorganic Compounds - Quality Control

Cardinal Laboratories										
		Reporting		Spike	Source		%REC	•	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2103009 - Filtration										
LCS (2103009-BS1)	Prepared & Analyzed: 30-Oct-12									
TDS	260		mg/L	L 240 108 80-120						
Duplicate (2103009-DUP1)	Sou	rce: H202612-	05	Prepared &	Analyzed:	30-Oct-12				
TDS	522	5.00	mg/L	520				0.384	. 20	
Batch 2110104 - General Prep - Wet Chem										
Blank (2110104-BLK1)				Prepared &	Analyzed:	31-Oct-12				
Alkalinity, Carbonate	ND	0.00	mg/L							
Alkalinity, Bicarbonate	ND	5.00	mg/L							
Alkalinity, Total	ND	4.00	mg/L							
LCS (2110104-BS1)				Prepared &	Analyzed:	31-Oct-12				
Alkalinity, Carbonate	ND	0.00	mg/L				80-120			
Alkalinity, Bicarbonate	137	5.00	mg/L				80-120			
Alkalinity, Total	112	4.00	mg/L	100		112	80-120			
LCS Dup (2110104-BSD1)				Prepared &	Analyzed:	31-Oct-12				
Alkalinity, Carbonate	ND	0.00	mg/L				80-120		20	
Alkalinity, Bicarbonate	137	5.00	mg/L				80-120	0.00	20	
Alkalinity, Total	112	4.00	mg/L	100		112	80-120	0.00	20	
Batch 2110603 - General Prep - Wet Chem										
Blank (2110603-BLK1)				Prepared &	Analyzed:	06-Nov-12				
Sulfate	ND	10.0	mg/L							

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Analytical Results For:

Hess Corporation P.O. Box 1570 Seminole TX, 79360	Project: WEST BRAVO DOME Project Number: WBD Project Manager: DANNY HOLCOMB Fax To: (432) 758-6715							Reported: 13-Nov-12 16:18					
Inorganic Compounds - Quality Control Cardinal Laboratories													
		Reporting		Spike	Source		%REC		RPD				
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes			
Batch 2110603 - General Prep - Wet Chem										<u>.</u>			
LCS (2110603-BS1)				Prepared &	k Analyzed:	06-Nov-12							
Sulfate	18.8	10.0	mg/L	20.0		94.2	80-120						
LCS Dup (2110603-BSD1)				Prepared &	k Analyzed:	06-Nov-12							
Sulfate	20.7	10.0	mg/L	20.0		103	80-120	9.31	20				
Batch 2110809 - General Prep - Wet Chem													
LCS (2110809-BS1)				Prepared &	2 Analyzed:	08-Nov-12							
Conductivity	1370		uS/cm	1410		97.2	80-120						
pH	7.05		pH Units	7.00		101	90-110						
Duplicate (2110809-DUP1)	So	urce: H202684	-01	Prepared &	2 Analyzed:	08-Nov-12							
Conductivity	3240	1.00	uS/cm	-	3240			0.00	20				
рН	8.71	0.100	pH Units		8.70			0.115	20				

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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101 East Marland, Hobbs, NM 88240 5) 202 2226 EAV (676) 202 2470

(5/5) 393-232	10 PAA (3/5) 393-24/0	<u> </u>																		_
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Project Manager:	any Holcord	s		P.(). #: _	450	0464	708								T	T			
Address: HC 72	- Box 30			Company: Hess Corporation																
City: Masquelo	State: jVM	Zip:	87733	Atto:																
Phone #: 575-650-03	16 Fax #: 575	-67	73-6709	Address: 9.0, Boy 1096417											•					
Project#: VVBD	Project Owner			City: San Antonio								•								
Project Name: VV 3D				Sta	nto: Ţ	X	Zip: 72	269	Σ					1						
Project Location: West	Braus Dame			Ph	one #:	801	-891-0	5766	20											
Sampler Name: De	miny Holcomb			Fa	x#: 8	77	- 404.	2716	₹								1			
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Sampler - UPS - Bus - Othe) r:		Sample Condit Cool / Intact Yes 'Ye	tion IS 0	сн	ECK (Initi	ED BY: als)													
† Cardinal cannot accept	vorbal changes. Picaso	fax w	ritten changes to	(579 52	5) 393- 14 7	2320)													Pa

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Geological Statement

- All available geologic and engineering data have been examined. There are no wells within 0.5 miles of this well.
- There is no evidence of open faults or other hydrologic connection between the disposal zone and any underground sources of drinking water.
- No wells within the surrounding 0.5 mile are known to use the overlying Glorieta formation or the underlying Cimarron formation as a source for drinking water.

West Bravo Dome Geologist

Al lelly

Amanda Raddatz

West Bravo Dome Engineer

Michand S. O.

Mike Pickering

PRODF

NOTICE

AFFIDAVIT OF PUBLICATION

State of New Mexico - County of Union

1.0

The undersigned, being first duly sworn according to law, on her oath deposes and says that she is the office manager of the newspaper named the Union County Leader and that she has personal knowledge of the facts stated herein: That the said the Union County Leader is a weekly newspaper of general paid circulation in Union and Harding Counties published in the County of Union and State of New Mexico; entered under the second class privilege at the U.S. Post Office at Clayton, Union County, New Mexico and having been uninterruptedly and continuously so printed and published during a period of more than six months next to the date of the printing of the first publication concerning which this affidavit is made and a copy of which is hereto attached; that the said publication, a printed copy of which is hereto attached and made part of this affidavit, was published in said newspaper once each week for <u>S</u> successive weeks, and that payment for said publication has been made or assessed as part of the court costs to which it relates; said publications havening been made on the following dates, to wit: 1. . 1

1 st publication: the 13^{r} gay of 10^{r} , 2^{nd} publication: the 3^{r} day of 10^{r} , 3^{r}	$\begin{array}{cccc} 3 \\ 3^{rd} & publication: & the 30^{rd} day of 30^{rd} \\ 2 \\ 4^{th} & publication: & the day of \end{array}$	20
Union County Leader	$- \underbrace{\frac{\text{Publisher's Bill}}{1.25}}_{\text{lines, display}} \underbrace{\frac{1}{3}}_{\text{times}} \underbrace{\frac{1}{3}}$	14.40
Notar Public, Union County, New Mexico	Received payment:	
NOTICE OF NOTICE OF NOTICE OF NOXY USA Inc., PO B Leslie Reeves) is apply Resources Department permit to inject fluid in the Yeso Formation, W well is located 13 mill Harding County. Unit feet from the North lin Mexico. Fluid will be in 1600 feet to 1940 feet, 800bwpd. LEGAL AUTHORITY are adversely affected the application should the Oil Conservation 87505. Telephone (505)	PPLICATION FOR DISPOSAL WELL PERMIT 4294, Houston, TX 77210-4294 (713-366-5716) (Contact g to the State of New Mexico; Energy, Minerals and Natural Di and Conservation Division for SWD (Saltwater Disposal) a formation. The application proposes to inject the fluid into st Bravo Dome Unit SWD No. 271. The proposed injection east of Mosquero, NM in West Bravo Dome Unit field in ther F, Section 27, Township 18 North, Range 30 East, 1650 and 1650 feet from the West line in Harding County New eted into strata in the Yeso. The projected depth interval is to proposed max pressure 1200psi and max injection rate of equests for public hearing from Persons who can show they requests for further information concerning any aspect of esubmitted in writing within fifteen days of publication, to vision, 1220 South St. Francis Dr., Santa Fe, New Mexico 76-3441.	τ.

-



OXY USA Inc

June 3, 2021

CERTIFIED MAIL - RETURN RECEIPT REQUESTED # 7019 0140 0000 3887 7234

Re: Application for Administrative Approval of SWD West Bravo Dome Unit SWD #271 (30-021-20540) Surface – 230' FNL 2355' FWL Unit C Sec 6 T24S R29E Pool: West Bravo Dome CO2 GAS (96387) Harding County, New Mexico

COPY

F&F Family Limited Partnership (Surface Owner) 130 Fitzgerald Lane Mosquero, NM 87733

To Whom it May Concern,

Enclosed is a copy of an application, filed with the New Mexico Oil Conservation Division (NMOCD) by OXY USA Inc., requesting administrative approval for a saltwater disposal well, changing from the Tubb formation to the Yeso. As an affected party, notice is being provided to you pursuant to Rule 19.15.26.8 (1)(C) NMAC. and 19.15.26.8 (2)(B). The well is located as follows:

Surface - 1650' FNL 1650' FWL Unit F Sec 27 T18N R30E

If you object to this application, you must notify the Division within 15 days from the date this application was mailed. You can notify the NMOCD (1220 South St. Francis Drive, Santa Fe, NM 87505) via phone (505)476-3441.

If you need any additional information, you can contact Leslie Lusk at 713-215-7277 or myself at 713-497-2492.

Thank you,

Leslie T. Reeves Regulatory Advisor OXY USA Inc.



OXY USA Inc

JUPY

June 3, 2021

CERTIFIED MAIL - RETURN RECEIPT REQUESTED #7019 0140 0000 3887 7241

Re: Application for Administrative Approval of SWD West Bravo Dome Unit SWD #271 (30-021-20540) Surface – 230' FNL 2355' FWL Unit C Sec 6 T24S R29E Pool: West Bravo Dome CO2 GAS (96387) Harding County, New Mexico

NM State Land Office PO Box 1148 Santa Fe, NM 87594 505-827-5766

To Whom it May Concern,

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If you need any additional information, you can contact Bret Fugate at 713-366-5382 or myself at 713-497-2492.

Thank you,

Leslie T. Reeves Regulatory Advisor OXY USA Inc.