	HOBBSOCD	Carl	sbad Fr	OF-T	DEEC FORM APPI OMB No 100 Expires October 5. Lease Serial No. NMNM092199	MIN
form 3160 - 3 March 2012)	AUG 1 6 2018	(	DCD H	eror ( Dhh	FORM APPI OMB No. 100 Expires October	KOVED 14-0137 r 31, 2014
	UNITED STATES DEPARTMENTED THE BUREAU OF LAND MAN	) INTERIOR LAGEMENT			5. Lease Serial No. NMNM092199	
· •	APPLICATION FOR PERMIT TO		REENTER		6. If Indian, Allotee or T	ibe Name
la. Type of work:	✓ DRILL REENT	ER			7. If Unit or CA Agreemen	
lb. Type of Well:	Oil Well Gas Well Other	🖌 Sin	igle Zone 🔲 Multip	ole Zone	8. Lease Name and Well I CORPERLINE WEST 2	10. ( 4000 4 ) 19 FEDERAL 6H
2. Name of Operato	T CAZA OPERATING LLC			$\square$	9 APT Well No. 30-025-4	5097
3a. Address 200 N	I. Loraine Street, Suite 1550 Midland TX	3b. Phone No. (432)682-7	(include area code)	$\bigtriangledown$	10 Field and Pool, or Explo WOLFCAMP / WC-025	
At surface NW	(Report location clearly and in accordance with an NW / 55 FNL / 775 FWL / LAT 32.282701	/ LONG -10	3.498114		11. Sec., T. R. M. or Blk.an SEC 29 / T23S / R34E	•
14. Distance in miles	and direction from nearest town or post office*	32.2692697	LONG -103 4974	51	12. County or Parish	13. State
18.5 miles 15. Distance from pro- location to nearest property or lease I (Also to nearest di	130 feet	16. No. of a	cres in lease	17. Spacin 160	LEA g Unit dedicated to this well	NM
<ol> <li>Distance from pro to nearest well, dri applied for, on this</li> </ol>	illing, completed, 140 feet	19: Proposed 11641 feet	Depth 7 16300 feet		BIA Bond No. on file NB000471	
21. Elevations (Show 3562 feet	v whether DF, KDB, RT, GL, etc.)	04/04/201	/	rt*	<ul><li>23. Estimated duration</li><li>30 days</li></ul>	
The following complex	ted in accordance with the requirements of Onsho	24. Attac		tached to the	s form:	
<ol> <li>Well plat certified 1</li> <li>A Drilling Plan.</li> <li>A Surface Use Pla</li> </ol>	by a registered surveyor. In (if the location is on National Forest System ad with the appropriate Forest Service Office).	×	<ol> <li>Bond to cover the litem 20 above).</li> <li>Operator certification</li> </ol>	ne operation	is unless covered by an exist	•
<b>`</b>	tronic Submission)		(Printed/Typed) B Sam / Ph: (432)6	682-7424	Date 10/	/27/2016
itle VP Operation	s S	<u>-</u>				
Approved by (Signature (Elect	e) ronic Submission)		(Printed/Typed) Layton / Ph: (575)2	34-5959	Date 08	e /04/2018
1 1	anager Lands & Minerals	Office HOBE				
onduct operations the	does not warrant or certify that the applicant hold ereon./ Il, if any, are attached.	ls legal or equit	able title to those righ	ts in the sub	ject lease which would entitle	the applicant to
	1001 and Title 43 U.S.C. Section 1212, make it a c bus or fraudulent statements or representations as			villfully to m	ake to any department or age	ncy of the United
(Continued on p	age 2)		·····		*(Instruct	ions on page 2)
GCPRe	c 05/16/18			0.910	Kro. 1	4

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**..**..

APPROVED WITH CONDITIONS

Approval Date: 08/04/2018

08/16/18

Doubled

### **INSTRUCTIONS**

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

The Privacy Act of 1974 and regulation in 43 CFR 2:48(d) provide that you be furnished the following information in connection with information required by this application.

NOTICES

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts. ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

(Form 3160-3, page 2)

# **Additional Operator Remarks**

### **Location of Well**

SHL: NWNW / 55 FNL / 775 FWL / TWSP: 23S / RANGE: 34E / SECTION: 29 / LAT: 32.282701 / LONG: -103.498114 (TVD: 0 feet, MD: 0 feet)
 PPP: NWNW / 275 FNL / 970 FWL / TWSP: 23S / RANGE: 34E / SECTION: 29 / LAT: 32.282092 / LONG: -103.497487 (TVD: 11493 feet, MD: 11561 feet)
 BHL: SWSW / 335 FSL / 970 FWL / TWSP: 23S / RANGE: 34E / SECTION: 29 / LAT: 32.269269 / LONG: -103.497461 (TVD: 11641 feet, MD: 16300 feet)

# **BLM Point of Contact**

Name: Sipra Dahal Title: Legal Instruments Examiner Phone: 5752345983 Email: sdahal@blm.gov

# **Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

			Annlia	ation Data Papart
U.S. Department of the Interior BUREAU OF LAND MANAGEMENT	. <u>.</u>		Applica	ation Data Report 08/07/2018
APD ID: 10400006128		Submission Dat	e: 10/27/201	
Operator Name: CAZA OPERATING LLC				iCiliadar Ano maosi. Tatatik Anningtas
Well Name: COPPERLINE WEST 29 FED	DERAL	Well Number: 6	-	Show Final Text
Well Type: OIL WELL		Well Work Type	: Drill	
Section 1 - General				
APD ID: 10400006128	Tie to pre	vious NOS?		Submission Date: 10/27/2016
BLM Office: HOBBS	User: Ton	y B Sam	Title	: VP Operations
Federal/Indian APĎ: FED	Is the first	t lease penetrated fo	or productio	n Federal or Indian? FED
Lease number: NMNM092199	Lease Ac	-	•	
Surface access agreement in place?	Allotted?	Re	servation:	
Agreement lin อไรเออร์ INO Agreement name: Agreement name:	.Fedard a	rlislan egnementis		
Keep application confidential? YES				
Permitting Agent? YES	APD Oper	ator: CAZA OPERA	TING LLC	
Operator letter of designation:				
Operator Info				
Operator Organization Name: CAZA OPE				
Operator Address: 200 N. Loraine Street,	, Suite 1550	:	<b>Zip</b> : 79701	
Operator PO Box: Operator City: Midland Stat	e: TX			
Operator Phone: (432)682-7424	e. 1A			
Operator Internet Address:				
Section 2 - Well Inform	nation			
Well in Master Development Plan? NO	Π	Mater Development	Plan name:	1
Well in Master SUPO? NO	Γ	Master SUPO name:		
Well in Master Drilling Plan? NO	1	Master Drilling Plan	name:	
Well Name: COPPERLINE WEST 29 FEDI		Well Number: 6H		Well API Number:
Field/Pool or Exploratory? Field and Pool		Field Name: WOLFC		Pool Name: WC-025 G-09 S243336I; UPPER WOLFCAMP
Is the proposed well in an area containin	ig other minera	I resources? NONE		;
				Page 1 of 3

Well Name: COPPERLINE WEST 29 FEDERAL

Well Number: 6H

•

Describe other minerals:		
Is the proposed well in a Helium production area? $\ensuremath{N}$	Use Existing Well Pad? YES	New surface disturbance? Y
Type of Well Pad: MULTIPLE WELL	Multiple Well Pad Name:	Number: 4H
Well Class: HORIZONTAL	COPPERLINE WEST 29 FEDERAL <b>Number of Legs</b> :	
Well Work Type: Drill		
Well Type: OIL WELL		
Describe Well Type:		
Well sub-Type: APPRAISAL		
Describe sub-type:		٩
Distance to town: 18.5 Miles Distance to no	earest well: 140 FT Distar	ice to lease line: 130 FT
Reservoir well spacing assigned acres Measurement	: 160 Acres	
Well plat: Copperline_West_29_Fed_6H_C_102	signed_20180428082345.pdf	
Well work start Date: 04/04/2017	Duration: 30 DAYS	
Section 3 - Well Location Table		
Survey Type: RECTANGULAR		
Describe Survey Type:		
Datum: NAD83	Vertical Datum: NAVD88	
Survey number: 16.11.0356		

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	DM	TVD
SHL Leg #1	55	FNL	775	FWL	23S	34E	29	Aliquot NWN W	32.28270 1 ·	- 103.4981 14	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	356 2 •	0	0
KOP Leg #1	55	FNL	775	FWL	23S	34E	29	Aliquot NWN W	32.28270 1	- 103.4981 14	LEA	NEW MEXI CO		F	FEE	- 613 8	970 0	970 0
PPP Leg #1	275	FNL	970	FWL	23S	34E	29	Aliquot . NWN W	32.28209 2	- 103.4974 87	LEA	NEW MEXI CO		F	FEE	- 793 1	115 61	114 93

# 

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Drilling Plan Data Report

APD ID: 10400006128

Operator Name: CAZA OPERATING LLC

Well Name: COPPERLINE WEST 29 FEDERAL

Well Number: 6H

Submission Date: 10/27/2016

TERECIS (TRE MOS) TECCTA CRANIES

lighlighiad data

08/07/2018

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

# Section 1 - Geologic Formations

Formation			True Vertical				Producing
· ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	
1	RUSTLER	3580	1023	1023		NONE	No
2	TOP SALT	2357	1223	1223		NONE	No
3	BASE OF SALT	877	2703	2703		NONE	No
4	DELAWARE	-1533	5113	5113		OIL	No
5	BRUSHY CANYON	-3528	7108	7108		OIL	No
6	BONE SPRING	-5088	8668	8668		OIL	No
7	FIRST BONE SPRING SAND	-6173	9753	9753		OIL	No
8	BONE SPRING 2ND	-6718	10298	10301		OIL	No
9	BONE SPRING 3RD	-7678	11258	11271	<u> </u>	OIL	No
10	WOLFCAMP	-7913	11493	11572		OIL	Yes

# **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M

Rating Depth: 15000

Equipment: Rotating head Remote kill line Mud/ Gas Separator

### Requesting Variance? YES

**Variance request:** Variance is requested for the use of a coflex hose for the choke line to from the BOP to the choke manifold. A variance is requested to use 1502(15,000psi working pressure) hammer unions downstream of the Choke Manifold used to connect the mud/gas separator and panic line. See choke manifold diagram.

**Testing Procedure:** Minimum Working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 inch casing shoe shall be 5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips the minimum wait time before

### Well Name: COPPERLINE WEST 29 FEDERAL

### Well Number: 6H

cut-off is eight hours after bumping the pug. BOP/BOPE testing can begin after cut-off or once cement reaches 500PSI compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified). The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater prior to initiating the test (see casing segment as lead cement may be critical item). a. The results of the test shall be reported to the appropriate BLM office. b. All Tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office. c. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

### **Choke Diagram Attachment:**

Choke Schematic\_09-27-2016.docx

### **BOP Diagram Attachment:**

Copperline\_West\_29\_Fed\_6H\_BOP\_Schematic\_20180428081323.pdf

Copperline\_West\_29\_Fed\_6H\_Coflex\_Hose\_Cert\_20180503133521.pdf

# **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	CONDUCT OR	24	20.0	NEW	API	N	0	120	0	120	-8079	-8199	120	H-40	94	STC						
2	SURFACE	17.5	13.375	NEW	API	N	0	1055	0	1055	-8079	-9134	1055	J-55	54.5	STC	2.32	1.81	DRY	1.56	DRY	14.8 4
3	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	5045	0	5045	3562	-1483	5045	L-80	40	LTC	1.18	1.95	DRY	0.81	DRY	20.0 1
4	PRODUCTI ON	8.75	5.5	NEW	API	N	0	16271	0	11640	3652	-8078	16271	P- 110	17	BUTT	1.52	3.62	DRY	1.35	DRY	2.76

### **Casing Attachments**

Well Name: COPPERLINE WEST 29 FEDERAL

Well Number: 6H

### **Casing Attachments**

Casing ID: 1 String Type: CONDUCTOR

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

Casing ID: 2 String Type: SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

Casing and Cement Design\_10-27-2016.xlsx

Casing ID: 3 String Type: INTERMEDIATE

Inspection Document:

**Spec Document:** 

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

Casing and Cement Design\_10-27-2016.xlsx

Well Name: COPPERLINE WEST 29 FEDERAL

Well Number: 6H

### **Casing Attachments**

Casing ID: 4

String Type: PRODUCTION

Inspection Document:

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

Casing and Cement Design\_10-27-2016.xlsx

Section	4 - Ce	emen	t									
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type		Additives
GOMPLETOR	Lead		0	120	78	1.93	195	1110	50	Clean & Q	<u>C</u> P	+ 4% bran bodade () + 2% bran Goldon Gilodis + 0.25 (brisne) Calb Pisko + 0.009% bran Skilt Piss + 6.008 gra (Pi- C)
RUMPACIS	Lead		0	745151	41977	1.93	18.5	77378	50	Class C		4% Iwar Bentanita II 4 2% Iwar Catalum Chladda 4 0.25 Ibe/sad Cata Fizie 4 0.00% Swas State Fize 4 Outos State Fize 4
NARVAGE	Tail	);;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	795	1025	2834	Ú,SAI	jene i		50	Cue C	* * *	4.5% buzz Celent Chlanda + 0.005 Belleack Static Franc + 0.005 gas FP-6L
	Lead		()	4548	1349	2.13	120	306	50	0.255-0		(25065) + Rez (Aly Ach) 44% brond Bentonite II 45% brond MPA-5 + 0.25% brond AL-52 + 5 Ibe/seek LGM- 1 + 0.125 lbe/seek Cello Aske+ 0.005 lbe/seek Stats Atee + 0.005 lbe/seek

## Well Name: COPPERLINE WEST 29 FEDERAL

Well Number: 6H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
								111-111-111-111-111-111-111-111-111-11		1	17P-OL + 1,2% lovae Sostum Melesticate + 6% lovav Sachum Calente
ONTERMEDVATE	Tail		4545	5945	-17 <b>-</b> C	1.99	1418	235	SO	Class C	mono
PRODUCTION	Lead		i) I	1193 5	1151041	2.38	14.9	4503	50	j@laas Hj	(60.50) + Poz (Py Ash) + 10% boxos Rentonita M + 5% axox Sodiuca Chlorido + 5 Ibs/sadu LOM-I + 0.0025 bo%adu Static Phys + 0.005 geb P2-61.
Produčnon	Tail		1126	1.27					23		Almerický Pesi/Py Ashickés H Cranssocesz + 4% Szeneckenské Szeneckés Szeneckés Szeneckés Szeneckés Szeneckés Szeneckés Szeneckés Szeneckés Szeneckés Szeneckés Szeneckés Szeneckés

# Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

**Describe what will be on location to control well or mitigate other conditions:** Sufficient mud will be on location to control any abnormal conditions encountered. Such as but not limited to a kick, lost circulation and hole sloughing.

**Describe the mud monitoring system utilized:** A Pason PVT system will be rigged up prior to spudding the well. A volume monitoring system that measures, calculates, and displays readings from the mud system on the rig to alert the rig crew of impending gas kicks and lost circulation issues. Components a) PVT Pit Bull monitor: Acts as the heart of the system, containing all the controls, switches, and alarms. Typically, it is mounted near the driller's console. b) Junction box: Provides a safe, convenient place for making the wiring connections. c) Mud probes: Measure the volume of drilling fluid in each individual tank. d) Flow sensor: Measures the relative amount of mud flowing in the return line.

# **Circulating Medium Table**

# Well Name: COPPERLINE WEST 29 FEDERAL

Well Number: 6H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1055	1055	SPUD MUD	8.4	8.9	66	0.12	9.5	5	0	0	· .
1055	5045	SALT SATURATED	9.8	10	75	0.1	9.5	2	150000	0	
5045	1627 1	SALT SATURATED	8.6	9.1	71	0.4	9.5	6	125000	18	

# Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures: no production tests

List of open and cased hole logs run in the well:

DS,GR,MWD,MUDLOG

Coring operation description for the well:

no coring

# **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 3500

Anticipated Surface Pressure: 938.98

Anticipated Bottom Hole Temperature(F): 162

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? NO

Hydrogen sulfide drilling operations plan:

Well Name: COPPERLINE WEST 29 FEDERAL

Well Number: 6H

# **Section 8 - Other Information**

Proposed horizontal/directional/multi-lateral plan submission:

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160719 West Copperline 29 Fed 6H Directional Plan\_10-27-2016.pdf

Other proposed operations facets description:

H2S Plan Ges Cadure Plan

# Other proposed operations facets attachment:

Copperline\_West\_29\_Fed\_6H\_H2S\_plan\_20180428082517.pdf Copperline\_West\_29\_Fed\_6H\_Gas\_Capture\_Plan\_20180503132957.pdf

Other Variance attachment:



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# COPPER STATE RUBBER VISUAL INSPECTION / HYDROSTATIC TEST REPORT CHOKE & KILL HOSE 10,000 P.S.I. W/P X 15,000 P.S.I. T/P SPEC: 090-1915 HS H2S SUITABLE

SHOP ORDER NO.: 16454	SIZE:4"I.D.
SERIAL NO.: 22199	LENGTH <u>50</u> FT. IN.
CONNECTIONS: 4-	1/16" 10,000 PSI API FLANGES
<u> </u>	T-X1840
VISUAL IN	SPECTION
(A) END CAPS / SLEEVE RECESS:	ОК
(B) EXTERIOR / COVER / BRANDING: (C) INTERIOR TUBE:	OK OK
HYDROST	
5 MIN. @ 10,000 PSI	,
2 MIN. @ 0 PSI	51'OAL
3 MIN. @ 15,000 PSI	
WITNESSED BY: DATE November 20, 200 FORM QA-21- REV-2 3-22-00	<u></u>

$\begin{array}{c} C_{DSPACT} State Rubber. Inc. \\ Phoenix. Arizona \\ DATE \_ \frac{1/2\omega/\omega}{16854} \\ w.o. \frac{16854}{1564} \\ serial 22199 \\ ID = \frac{4^{2}}{12199} \\ ID = \frac{4^{2}}{12199} \\ ID = \frac{1}{12199} \\ ID = \frac{1}{12199}$			
DATE <u>18454</u> w. 0. <u>16454</u> serial <u>22199</u> i.0. <u>4"</u> i.0. <u>4"</u> LENGTH <u>50'</u> LENGTH <u>50'</u> TYPE OF ENDS <u>4-1/16" 10,000 PSI API FLANGES</u> TYPE OF HOSE <u>15,000 PSI TEST</u>			
DATE <u>18454</u> w. 0. <u>16454</u> serial <u>22199</u> i.0. <u>4"</u> i.0. <u>4"</u> LENGTH <u>50'</u> LENGTH <u>50'</u> TYPE OF ENDS <u>4-1/16" 10,000 PSI API FLANGES</u> TYPE OF HOSE <u>15,000 PSI TEST</u>		Copper State Rubber. Inc. Phoenix, Arizona	
W         22199           SERIAL         4"           I.D         4"           LENGTH         50'           TYPE OF ENDS         4-1/16" 10,000 PSI API FLANGES           TYPE OF HOSE         15,000 PSI TEST	AND COURSE NO. 15	DATE <u> </u>	SI INMANANA MANANA ANA ANA ANA ANA ANA ANA A
LENGTH 50' LENGTH 50' TYPE OF ENDS 4-1/16" 10,000 PSI API FLANGES TYPE OF HOSE 15,000 PSI TEST		SERIAL 22199	KANNIN
TYPE OF HOSE 15,000 PSI TEST	Ellis (P. S.	1050'	I ANI
TYPE OF HOSE 15,000 PSI TEST CHOKE & KILL		TYPE OF ENDS 4-1/16" 10,000 PSI API FLANGES	a an
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		CHOKE & KILL	

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						31	32	33	34	35	36								
							Towns	ship S	iectio	n No's		I							

•

### #NAME?

13 3/8	surface csg	g in a	17 1/2 i	nch hole.	De	sign Facto	<u>rs</u>	SUR	FACE
Segment	#/ft	Gra	ade	Coupling	Joint	Collapse	Burst	Length	Weight
"A"	54.50	J	55	ST&C	8.94	2.32	1.04	1,055	57,498
"B"								0	0
•	d, 30min Sfc Csg n of Propos				t does not <u>Cement Vo</u> l		Totals:	1,055	57,498
•	n of Propos Annular 1	<u>ed to M</u> L Stage				Drilling	Totals: Calc MASP	1,055 Req'd BOPE	57,498 Min Dist Hole-Cplg

9 5/8	casing inside the	13 3/8			<b>Design</b> Fac	tors	INTERM	IEDIATE
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight
"A"	40.00	J 55	LT&C	2.58	1.27	0.72	3,900	156,000
"B"	40.00	L 80	LT&C	15.87	1.18	1.04	1,145	45,800
w/8.4#/g muo	d, 30min Sfc Csg Test p	osig: 1,063				Totals:	5,045	201,800
ment volur	ne(s) are intendo	ed to achi	eve a top of	0	't from su	rface or a	1055	overlap.

Hole Size	Annular Volume	•	1 Stage	Min Cu Ft	1 Stage % Excess	-	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
12 1/4	0.3132	1712	3469	1651	110	10.00	2942	3M	0.81
Sett	ing Depths for	D V Tool(s)	: 3100				sum of sx	<u>Σ CuFt</u>	Σ%excess
excess c	mt by stage % :	193	44				1636	3309	100
Class 'C' tail	cmt yld > 1.3	5			· · ·	· :	* . 		- 1. 
Burst Frac G	radient(s) for	Segment(s	): A, B, C, D	= 1.01, b,	c, d All > 0.	70, OK.	•	· ·	

5 1/2	casing ins	ide the	9 5/8		_	Design Fa	ctors Pl	RODUCTI	ON
Segment	#/ft	Gr	ade	Coupling	Body	Collapse	Burst	Length	Weight
"A"	17.00	F	P 110	BUTT	2.76	1.52	1.93	10,425	177,225
"B"	17.00	F	P 110	BUTT	9.93	1.29	1.93	5,846	99,382
w/8.4#/g mi	ud, 30min Sfc C	sg Test psig	: 2,294				Totals:	16,271	276,607
В	Segme	nt Design	Factors	would be	: 26.427744	1.36	if it were a	vertical we	ellbore.
		ام م س	MTD	Max VTD	Csg VD	Curve KOP	Dogleg <sup>o</sup>	Severity	MEOC
NO PI	ilot Hole Plar	inea	16271	11640	11640	10425	90	6	11965
ment volu	me(s) are i	ntended	to achiev	e a top of	F 0	't from s	urface or a	5045	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
8 3/4	0.2526	3500	7646	4157	84	9.10		1	1.35
Class 'H' tail	cmt yld > 1.20	) .	; .		•••				· · ·
		•			: . :		· · · · · ·		



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### #NAME?

13 3/8	surface o	csg in a	17 1/2	inch hole.	De	esign Facto	rs	SUF	RFACE
Segment	#/ft	Gr	ade	Coupling	Joint	Collapse	Burst	Length	Weight
"A"	54.50		J 55	ST&C	8.94	2.32	1.04	1,055	57,498
"B"								0	0
w/8.4#/a mu	id, 30min Sfc C	sa Test psia	1.451	Tail Cm	t does not	circ to sfc	Totals:	1,055	57,498
•	n of Propo			lequired (	<u>Cement Vo</u>	ļ			
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd	Min Dis
Size	Volume	Cmt Sx	CuFt Cm	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cp
17 1/2	0.6946	748	1346	806	67	8.90	1511	2M	1.56
	· · · · · · · · · · · · · · · · · · ·				· · · ·	· · · · ·			
			: .	:	2				
	· · · · · · · · · · · · · · · · · · ·								
9 5/8	casing ins	side the	13 3/8		_	<b>Design Fac</b>	<u>ctors</u>	INTER	MEDIATE

Segment	#/ft	Grad	de	Coupling	Joint	Collapse	Burst	Length	Weight
"A"	40.00	J 5	55	LT&C	2.58	1.27	0.72	3,900	156,000
"B"	40.00	L.8	30	LT&C	15.87	1.18	1.04	1,145	45,800
w/8.4#/g muo	d, 30min Sfc Cs	g Test psig: 1	1,063				Totals:	5,045	201,800
	me(s) are in			· · · · · · · · · · · · · · · · · · ·		t from su		1055	overlap.
Hole	Annular	1 Stage	1 Stage 🗍	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
		1 Stage	1 Stage 🗍	· · · · · · · · · · · · · · · · · · ·		Drilling			Min Dist
Hole	Annular	1 Stage	1 Stage 🗍	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Hole Size 12 1/4	Annular Volume	1 Stage 1 Cmt Sx C 1712	1 Stage CuFt Cmt 3469	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cpl
Hole Size 12 1/4 Settir	Annular Volume 0.3132	1 Stage 1 Cmt Sx C 1712	1 Stage CuFt Cmt 3469	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP 2942	Req'd BOPE 3M	Min Dist Hole-Cple 0.81
Hole Size 12 1/4 Settir excess cm	Annular Volume 0.3132 ng Depths for D	1 Stage 1 Cmt Sx C 1712 V Tool(s):• 193	1 Stage CuFt Cmt 3469 3100	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP 2942 sum of sx	Req'd BOPE 3M ∑ CuEt	Min Dist Hole-Cplg 0.81 Σ%excess

5 1/2	casing insi	de the	9 5/8			<b>Design</b> Fa	actors Pl	RODUCTI	ON
Segment	#/ft	Gr	ade	Coupling	Body	Collapse	Burst	Length	Weight
"A"	17.00	F	110	BUTT	2.76	1.52	1.93	10,425	177,225
"B"	17.00	F	110	BUTT	9.93	1.29	1.93	5,846	99,382
w/8.4#/g mu	d, 30min Sfc Cs	g Test psig	: 2,294				Totals:	16,271	276,607
В	Segmen	t Design	Factors	would be	: 26.427744	1.36	if it were a	vertical w	ellbore.
	at Liala Diam	-	MTD	Max VTD	Csg VD	Curve KOP	Dogleg°	Severity	MEOC
NO PI	ot Hole Plan	nea	16271	11640	11640	10425	90	6	11965
ment volu	me(s) are ir	ntended	to achiev	e a top o	f 0	t from s	urface or a	5045	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cm	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
8 3/4	0.2526	3500	7646	4157	. 84	9.10	: - 		1.35
Class 'H' tail (	cmt yld > 1.20	·	··· · ···	· · · · ·	·· · · ·	·* · ·	· · · · · · ·	• •	
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# **AFMSS**

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400006128

**Operator Name: CAZA OPERATING LLC** 

Well Name: COPPERLINE WEST 29 FEDERAL

Well Type: OIL WELL

# Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

0356 Well Site Plan 10-27-2016.pdf

Existing Road Purpose: ACCESS

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

**Existing Road Improvement Description:** 

**Existing Road Improvement Attachment:** 

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

# **Section 3 - Location of Existing Wells**

Existing Wells Map? YES

Attach Well map:

6H One Mile Circles\_10-27-2016.jpg



SUPO Data Report

Show Final Text

08/07/2018

Submission Date: 10/27/2016

Well Work Type: Drill

Well Number: 6H

Row(s) Exist? YES

Well Name: COPPERLINE WEST 29 FEDERAL

Well Number: 6H

Existing Wells description:

### Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

**Production Facilities description:** There is an existing production facility that is used for the Copperline West 29 Fed 1H and 3H wells. This facility and containment will be used for the 5H. Tankage and a metered 3 phase separator will be added to the existing facility.

Production Facilities map:

Production Facility\_10-27-2016.docx

# Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING Describe type:

Source latitude:

Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 140000

Source volume (gal): 5880000

Source volume (acre-feet): 18.045033

Well datum:

Water source type: GW WELL

Source longitude:

Water source and transportation map:

water supply map 10-27-2016.docx

POD\_10-27-2016.pdf

Water source comments: Water will be supplied by the surface tenant's water well, Limestone Livestock LLC. Bill Angell Limestone Livestock, LLC 76 Angell Road Lovington, NM 88260 575-369-6303 New water well? NO

Well Longitude:

New	Water	Well	Info
-----	-------	------	------

Weil	latitude:	

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well Name: COPPERLINE WEST 29 FEDERAL

Well depth (ft):	Well casing type:
Well casing outside diameter (in.):	Well casing inside diameter (in.):
New water well casing?	Used casing source:
Drilling method:	Drill material:
Grout material:	Grout depth:
Casing length (ft.):	Casing top depth (ft.):
Well Production type:	Completion Method:
Water well additional information:	
State appropriation permit:	
Additional information attachment:	

### Section 6 - Construction Materials

Construction Materials description: caliche from pit at T20S R34E Section 35

### **Construction Materials source location attachment:**

Copperline\_West\_29\_Fed\_6H\_Caliche\_Map\_20180428080817.pdf

# Section 7 - Methods for Handling Waste

Waste type: DRILLING Waste content description: Drill cuttings Amount of waste: 1165000 pounds Waste disposal frequency : Daily Safe containment description: roll off bins Safe containmant attachment: Waste disposal type: HAUL TO COMMERCIAL **Disposal location ownership: COMMERCIAL** FACILITY **Disposal type description:** Disposal location description: R360 commercial disposal facility Waste type: DRILLING Waste content description: Drill fluids Amount of waste: 2500 barrels Waste disposal frequency : Weekly Safe containment description: rig mud tanks Safe containmant attachment: Waste disposal type: HAUL TO COMMERCIAL **Disposal location ownership: COMMERCIAL** FACILITY

# Well Number: 6H

Well Name: COPPERLINE WEST 29 FEDERAL

Well Number: 6H

### Disposal type description:

Disposal location description: Siana SWD

<b>Reserve Pit</b>	
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Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

**Reserve pit liner** 

Reserve pit liner specifications and installation description

**Cuttings Area** 

Cuttings Area being used? NO

Are you storing cuttings on location? NO

**Description of cuttings location** 

Cuttings area length (ft.)

Cuttings area depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

162611 6H location map\_11-26-2016.docx

Well Number: 6H

Comments:

# **Section 10 - Plans for Surface Reclamation**

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: COPPERLINE WEST 29 FEDERAL Multiple Well Pad Number: 4H

**Recontouring attachment:** 

**Drainage/Erosion control construction**: Per BLM insturctions as identified during onsite **Drainage/Erosion control reclamation**: Per BLM insturctions as identified during onsite

Wellpad long term disturbance (acres): 0	Wellpad short term disturbance (acres): 0.5		
Access road long term disturbance (acres): 0.03	Access road short term disturbance (acres): 0.03		
Pipeline long term disturbance (acres): 0	Pipeline short term disturbance (acres): 0		
Other long term disturbance (acres): 0	Other short term disturbance (acres): 0		
Total long term disturbance: 0.03	Total short term disturbance: 0.53		

#### **Disturbance Comments:**

Reconstruction method: Interim reclamation as identified during onsite Topsoil redistribution: Interim reclamation as identified during onsite Soil treatment: Interim reclamation as identified during onsite Existing Vegetation at the well pad: Sage brush and native grasses. Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Sage brush and native grasses.
Existing Vegetation Community at the road attachment:
Existing Vegetation Community at the pipeline: Sage brush and native grasses.
Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Sage brush and native grasses. Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO Non native seed description: Seedling transplant description: Will seedlings be transplanted for this project? NO

Well Name: COPPERLINE WEST 29 FEDERAL

Well Number: 6H

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

# Seed Management Seed Table Seed type: Seed source: Seed name: Source address: Source name: Source phone: Seed cultivar: Seed use location: Proposed seeding season: PLS pounds per acre: Total pounds/Acre: Seed Summary

**Pounds/Acre** 

Seed Type

Seed reclamation attachment:								
<b>Operator Contact/Respor</b>	<b>Operator Contact/Responsible Official Contact Info</b>							
First Name:	Last Name:							
Phone:	Email:							
Seedbed prep:	· .							
Seed BMP:								
Seed method:								
Existing invasive species? NO								
Existing invasive species treatment d	lescription:							
Existing invasive species treatment a	ttachment:							
Weed treatment plan description: Spr	ay for cheat grass							
Weed treatment plan attachment:								
Monitoring plan description: Visual in	spection in spring and late fall.							
Monitoring plan attachment:								

Well Name: COPPERLINE WEST 29 FEDERAL

Well Number: 6H

Success standards: 80% coverage by 2nd growing season of native species with less than 5% invasive species

Pit closure description: No pits to be used

Pit closure attachment:

# Section 11 - Surface Ownership

Disturbance type: WELL PAD

**Describe:** 

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

NPS Local Office:

**State Local Office:** 

**Military Local Office:** 

**USFWS Local Office:** 

**Other Local Office:** 

USFS Region:

**USFS Forest/Grassland:** 

**USFS Ranger District:** 

# Section 12 - Other Information

Right of Way needed? NO ROW Type(s): Use APD as ROW?

**ROW Applications** 

**SUPO Additional Information:** 

Use a previously conducted onsite? YES

Previous Onsite information: Copperline West 29 Federal 4H

Well Name: COPPERLINE WEST 29 FEDERAL

Well Number: 6H

# Other SUPO Attachment

Copperline\_West\_29\_Fed\_6H\_Interim\_Reclamation\_Plat\_20180428081127.pdf



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT



### **Section 1 - General**

Would you like to address long-term produced water disposal? NO

# **Section 2 - Lined Pits**

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: **PWD** surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount:

Additional bond information attachment:

**PWD** disturbance (acres):

# Section 3 - Unlined Pits

### Would you like to utilize Unlined Pit PWD options? NO

**Produced Water Disposal (PWD) Location:** 

**PWD** surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

**Unlined pit specifications:** 

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

**Unlined pit Monitor description:** 

**Unlined pit Monitor attachment:** 

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

**Unlined Produced Water Pit Estimated percolation:** 

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

# Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

# Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Surface discharge PWD discharge volume (bbl/day): Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment: Surface Discharge site facilities information:

Surface discharge site facilities map:

# **Section 6 - Other**

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

**PWD surface owner:** 

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Injection well name:

### Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

# 

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

# **Bond Information**

Federal/Indian APD: FED

BLM Bond number: NMB000471

**BIA Bond number:** 

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

**BLM reclamation bond number:** 

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

**Reclamation bond number:** 

**Reclamation bond amount:** 

**Reclamation bond rider amount:** 

Additional reclamation bond information attachment:

# Bond Info Data Report

Well Number: 6H



Well Name:	COPPERLINE	WEST 29	9 FEDERAL
	•		

	oot	Indicator	-oot	Indicator		e	LO	ot/Lot/Tract	ep	ngitude	lty		2 <u>5</u>	Type	e Number	Elevation		
	NS-F	NS II	EW-Foot	EV -	Twsp	Range	Section	Aliquot/L	Latitude	Long	County	State	Meridian	Lease	Lease	Eleva	MD	DVT
EXIT Leg #1	335	FSL	970 •	FWL	235	34E	29	Aliquot SWS W	32.26926 9	- 103.4974 61	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 092199	- 807 9	163 00	116 41
BHL Leg #1	335	FSL	970	FWL	23S	34E	29	Aliquot SWS W	32.26926 9	- 103.4974 61	LEA		NEW MEXI CO	F	NMNM 092199	- 807 9	163 00	116 41



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT



Signed on: 10/27/2016

# **Operator Certification**

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Tony B Sam

Title: VP Operations

Street Address: 200 N. Loraine Street, Suite 1550

City: Midland

Phone: (432)682-7424

Email address: steve.morris@morcorengineering.com

# **Field Representative**

Representative Name: Kevin Garrett

Street Address: 200 N. Lorraine St

City: Midland

- -

State: TX

State: TX

Zip: 79701

Zip: 79701

Phone: (432)556-8508

Email address: kgarrett@cazapetro.com