Form 3160-3 (March 2012)

OCL 57 2016

ATS-16-470 OMB No. 1004-0137

Expires October 31, 2014

5. Lease Serial No.

NMNM0005792

(Instructions on page 2)

6. If Indian, Allotee or Tribe Name

HOBBS OCD

BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER

UNITED STATES

DEPARTMENT OF THE INTERIOR

1a. Type of Work:	✓ DRILL RE	ENTER			7. If Unit or CA Agreem	ent, Name and No.
						- /
				1	8. Lease Name and We	ell No. (3/70)
1b. Type of Well:	✓ Oil Well Gas Well Oth	ner	Single Zone Multipl	le Zone	Rojo E 7811 J	V-P Federal #4H
2. Name of Operator	BTA OIL PRODU	CERS, LLC	240297	1000	9. API Well No.	025- 43464
3a. Address	3b.	Phone No. (inc.	lude area code) UNOR I	NOUU	0. Field and Pool, or Ex	oploratory 670
	104 South Pecos Midland, TX 79701		432-682-3753 LOCA	TION	Red Hills; Upper	Bone Spring Shale
 Location of Well (R. 	eport location clearly and in accordance with a	ny State requireme	ents.*)	1	.1. Sec., T.R.M. or Blk a	nd Survey or Area
At surface	50' FSL & 230' FWL Unit	Letter M (SWSW	V) SHL Sec 34-T25S-R33E			
At proposed prod.	Zone 330' FNL & 330' FWL Un	t Letter D (NWN	NW) BHL Sec 34-T25S-R33E		Section 34	- T25S - R33E
14. Distance in miles a	nd direction from nearest town or post o			1	2. County or Parish	13. State
	Approximately 21 r	niles from Ial				NM
15. Distance from prop		inica irolli Jai	16. No. of acres in lease	17 Spacing	Lea County g Unit dedicated to thi	
location to nearest			10. No. of acres in lease	17. Spacing	g offic dedicated to this	s well
property or lease li			680			
(Also to nearest dri		•	7.8		160	
18. Distance from loca	tion* SHL: 5	010'	19. Proposed Depth	20. BLM/B	IA Bond No. on file	COLUMN TO THE
to nearest well, dri	lling, completed, BHL: 1		TVD: 9,369' MD: 14,097'			
applied for, on this	lease, ft.	.160	170. 3,303 100. 14,037		NM1195 & NME	3000849
21. Elevations (Show w	hether DF, KDB, RT, GL, etc.)		22. Approximate date work will	start*	23. Estimate	d duration
	3318' GL		11/1/2019	5		30 days
	C. De Contract	24	1. Attachments			
The following, complete	d in accordance with the requirements o	f Onshore Oil an	nd Gas Order No. 1, shall be attached	to this form:	A La Tark	-
Well plat certified by	by a registered surveyor.		4. Bond to cover the operati	ions unless co	overed by an existing be	and on file (see
2. A Drilling Plan	-,		Item 20 above).		,	
	(if the location is on National Forest Syste	em Lands, the	5. Operator certification			
	with the appropriate Forest Service Offic		6. Such other site specific in	formation and	d/or plans as may be re	equired by the
501 0 311011 0 2 11100			authorized officer.		, ,	quired by tire
25. Signature		Name (Prin	nted/Typed)		Date	
Home (n nkmn	1	, .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Par Ma	WIKEL		Pam Inskeep			10/2/2015
Title						
Regulatory Adn	ninistrator					
Approved by (Signature,	1-10 1 7	Name (Prin	nted/Typed)		Date	
	/s/Cody Layton				OCT	1 9 2016
Title		Office				
	FIELD MANAGER		CARLSBAD	FIELD OF	FICE	
Application approval do	es not warrant or certify that the applica	nt holds legan or		subject lease	e which would entitle t	he applicant to
conduct operations ther				AP	PROVAL FOR	TWO YEAR
Conditions of approval,						TE/III
						2.1
Title 18 U.S.C. Section 10	001 and Title 43 U.S.C. Section 1212, make	e it a crime for a	iny person knowingly and willfully to	make to any	department or agency	of the United

Carlsbad Controlled Water Basin

(Continued on page 2)

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

1. Geologic Formations

TVD of target	9369'	Pilot hole depth	NA
MD at TD:	14,097'	Deepest expected fresh water:	650

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	3 -
Rustler	930	Water	
Top of Salt	1275	Salt	
Base of Salt	4847	Salt	
Lamar	4964	Barren	
Bell Canyon	5000	Oil/Gas	1
Cherry Canyon	6000	Oil/Gas	
Brushy Canyon	7516	Oil/Gas	
Bone Spring Lime	9029	Oil/Gas	
U. Avalon Shale	9090	Oil/Gas Target Zone	
L. Avalon Shale	9482	Not Penetrated	1 English Francisco
1st Bone Spring Sand	10,004	Not Penetrated	

^{*}H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program - See COA

Hole	Casing Interval		Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	To	Size	(lbs)			Collapse	Burst	Tension
17.5"	0	9551020'	13.375"	54.5	J55	STC	1.537	1.139	9.87
12.25"	0	4300	9.625"	40	J55	LTC	1.127	1.13	2.61
12.25"	4300	4970'	9.625"	40	N80	LTC	1.15	1.64	3.657
8.75"	0	14,097	5.5"	17	P110	LTC	1.683	2.28	3.04
				BLM Min	imum Safe	ty Factor	1.125	1	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h Intermediate and Production Burst based on Pore Pressure (9.1 ppge) at Lateral TVD minus Gas Gradient (0.1 psi/ft).

Intermediate casing will always be kept 1/3 full while running as additional collapse protection.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
s premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide ustification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N

If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	1 , 11
$\mathbf{r} = \mathbf{r} \cdot \mathbf{r}$	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program - See COA

Casing # Sks Wt. lb/gal		Yld H ₂ 0 500# ft3/ gal/s Comp. sack k Strength (hours)		Comp. Strength	Slurry Description		
Surf.	405	13.5	1.75	9	12	Lead: Class C + 4% Gel + 2% CaCl2	
	350	14.8	1.34	4.8	8	Tail: Class C + 2% CaCl2	
Inter.	1120	12.7	1.99	10	12	1st stage Lead: Econocem HLC 65:35:6 + 5% Salt	
	250	14.8	1.34	6.4	8	1st stage Tail: Class C + 2% CaCl	
Prod.	460	10.3	3.62	21.9	72	1st Lead: Halliburton Tune Lite Blend	
	1225	14.4	1.24	5.7	20	1st Tail: Versacem 50:50:2 Class H + 1% Salt	

Cement Cement Cement

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	75%
Intermediate	0,	75%
Production	3970'	17% OH in Lateral (KOP to EOL) – 40% OH in Vertical (to KOP) - Tie In 1000' Inside 9-5/8" Casing Shoe @ 4970'

4. Pressure Control Equipment - See COA

NI	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.	r	
1	V	schematic.	

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ту	pe	1	Tested to:
			Ann	ular	X	2000 psi
12-1/4"		2M	Blind	Ram		a de la companya de l
	13-5/8"		Pipe Ram			2) (
			Double Ram			2M
			Other*	1		
			Ann	ular	X	50% testing pressure
		3M	Blind Ram		х	and the second
8-3/4"	11"		Pipe	Ram	X	
0-3/4	11		Double Ram			3M
			Other *			

^{*}Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y Formation integrity test will be performed per Onshore Order #2

Λ	Exploratory wells or on that portion of any well approved for a 5M BOPE system or ter, a pressure integrity test of each casing shoe shall be performed. Will be tested in rdance with Onshore Oil and Gas Order #2 III.B.1.i.				
Y		A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.			
	N	Are anchors required by manufacturer?			
N A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum					



30 days. If any seal subject to test pressure is broken the system must be tested.

5. Mud Program

Depth To		Type	Weight (ppg)	Viscosity	Water Loss	
0	Surf. Shoe	FW Gel	8.6-8.8	28-34	N/C	
Surf csg	Int shoe	Saturated Brine	10.0-10.2	28-34	N/C	
Int shoe	TD@14,097	Cut Brine	8.5-9.3	28-34	N/C	

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain	PVT/Pason/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures - See COA

Logs	ging, Coring and Testing.
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
N	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain
N	Coring? If yes, explain

Additional logs planned		Interval				
N	Resistivity					
N	Density	15 15 17 17 17 17 17 17 17 17 17 17 17 17 17				
Y	CBL	Production casing (If cement not circulated to surface)				
Y	Mud log	Intermediate shoe to TD				
N	PEX					

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4433 psi at 9369' TVD
Abnormal Temperature	NO (150 DEG. F)

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

OPERATOR CERTIFICATION

BTA OIL PRODUCERS LLC Rojo E 7811 JV-P #4H Section 34, T25S-R33E Lea County, NM

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Date:

October 2, 2015

Lease #:

SHL: NMNM015091 UL "M"

Rojo E 7811 JV-P #4H

Legal Description: Sec. 34 - T25S - R33E

Lea County, New Mexico

Formation(s): Bone Spring

Bond Coverage: Statewide

BLM Bond File #: NM1195 & NMB000849

BTA OIL PRODUCERS, LLC

Pam Inskeep

Regulatory Administrator

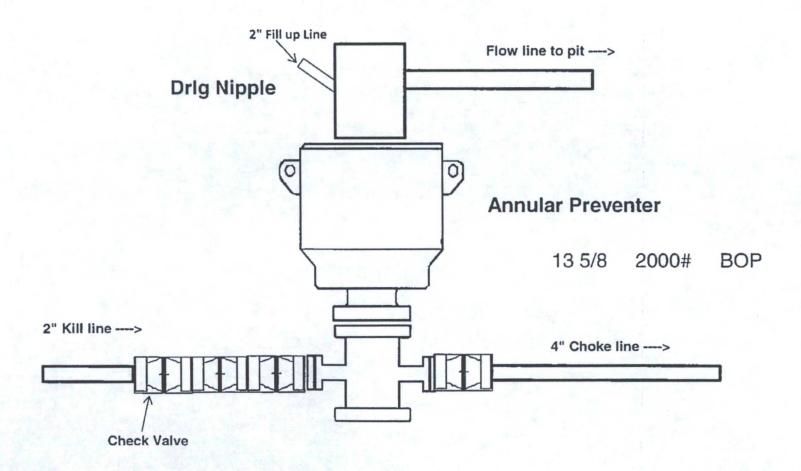
8. Other facets of operation

Is this a walking operation? NO If yes, describe. Will be pre-setting casing? NO If yes, describe.

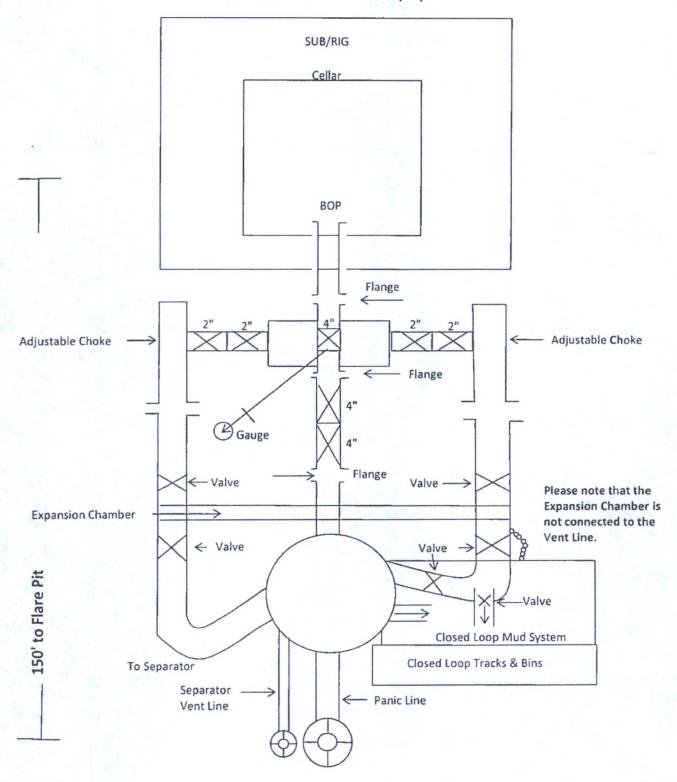
Attachments

- BOP & Choke Schematics
- Directional plan
- C102 and supporting maps
- · Rig plat
- H2S schematic
- H2S contingency plan
- Interim reclamation plat
- Flex Hose Variance

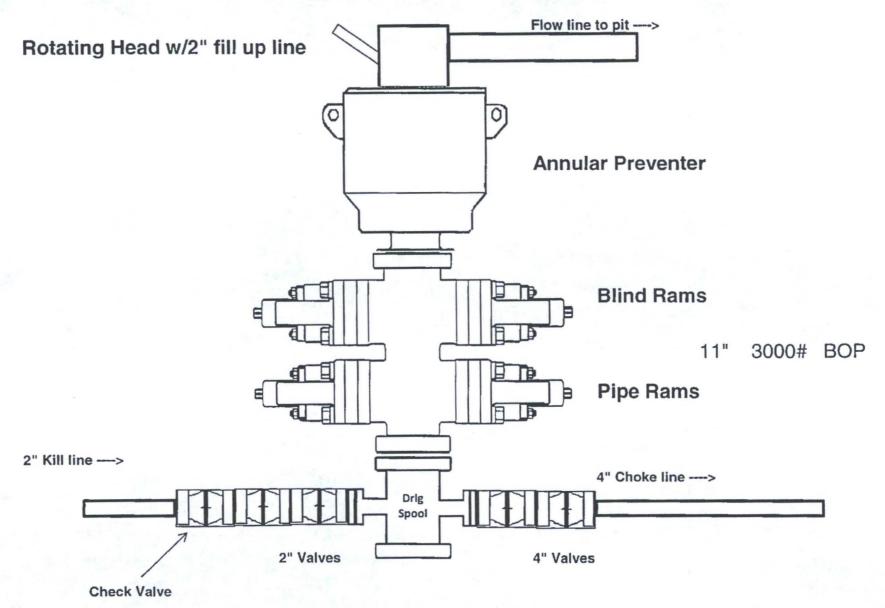
2,000 psi BOP Schematic



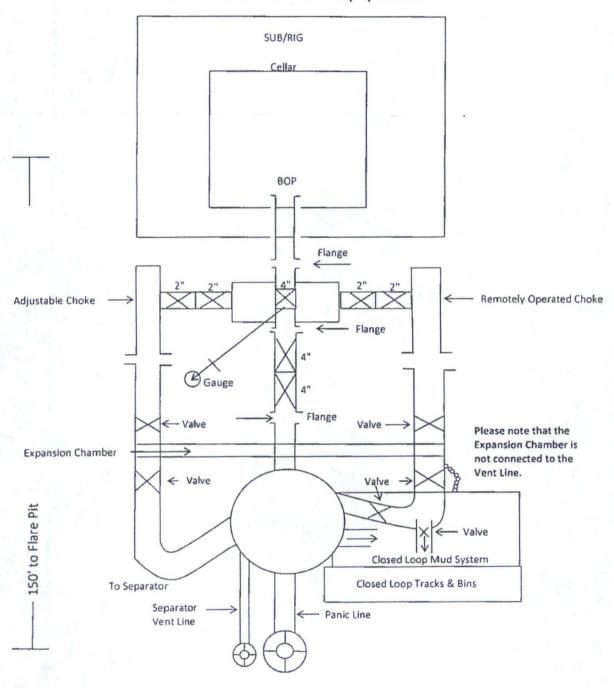
2M Choke Manifold Equipment

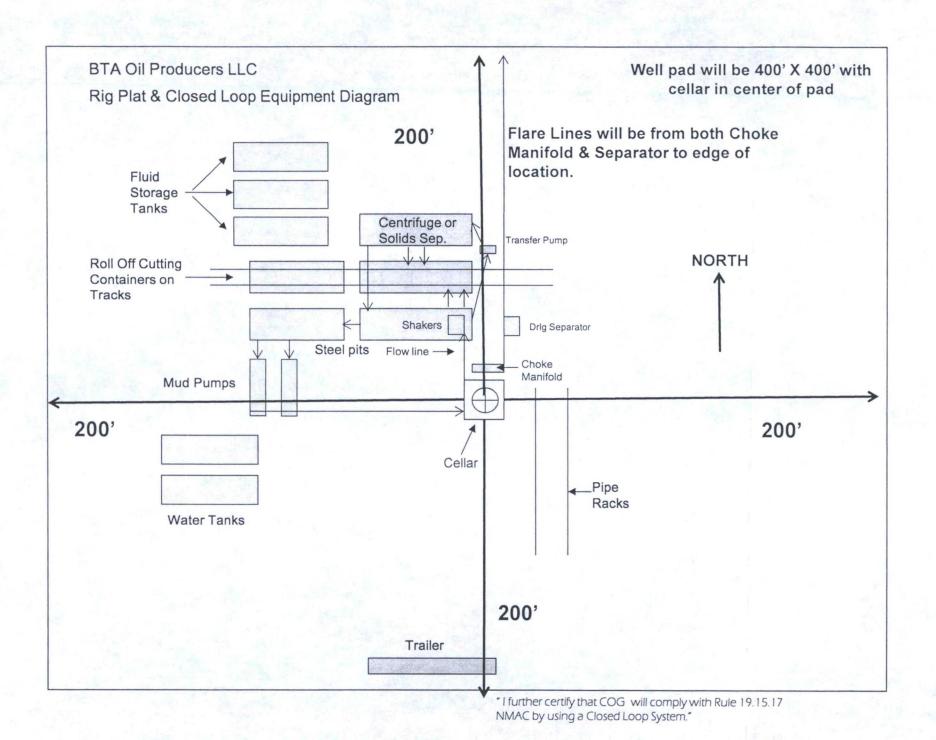


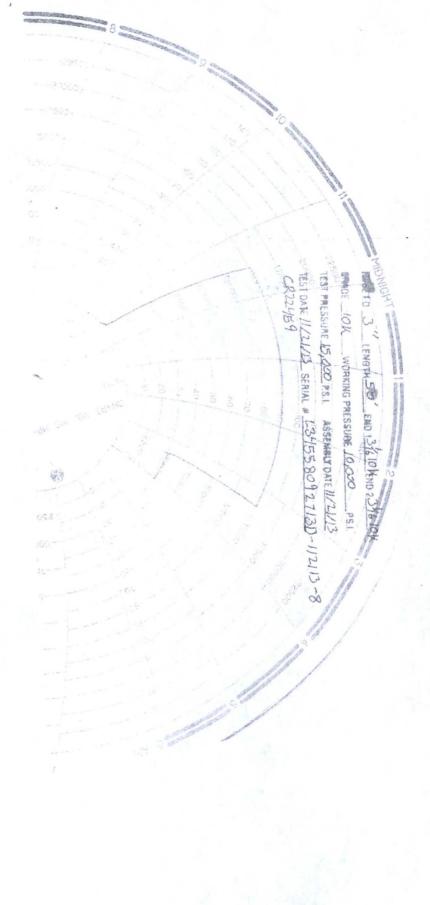
3,000 psi BOP Schematic



3M Choke Manifold Equipment









GATES E & S NORTH AMERICA, INC

DU-TEX

134 44TH STREET

CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807

FAX: 361-887-0812

EMAIL: crpe&s@gates.com

WEB: www.gates.com

10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

SPECIALTY SALES, INC. Customer 49680-S Customer Ref. : 197465 Invoice No. :

Test Date: Hose Serial No.: Created By:

11/21/2013 D-112113-8 Norma M.

Product Description:

10K3.050.0CK31/1610KFLGE/E

End Fitting 1: Gates Part No. : Working Pressure: 3 1/16 10K FLG 47773-4290 10,000 PSI

End Fitting 2: Assembly Code :

Test Pressure :

3 1/16 10K FLG L34558092713D-112113-8

15,000 PSI

PRODUCTION

(11/22/2013

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager :

Date :

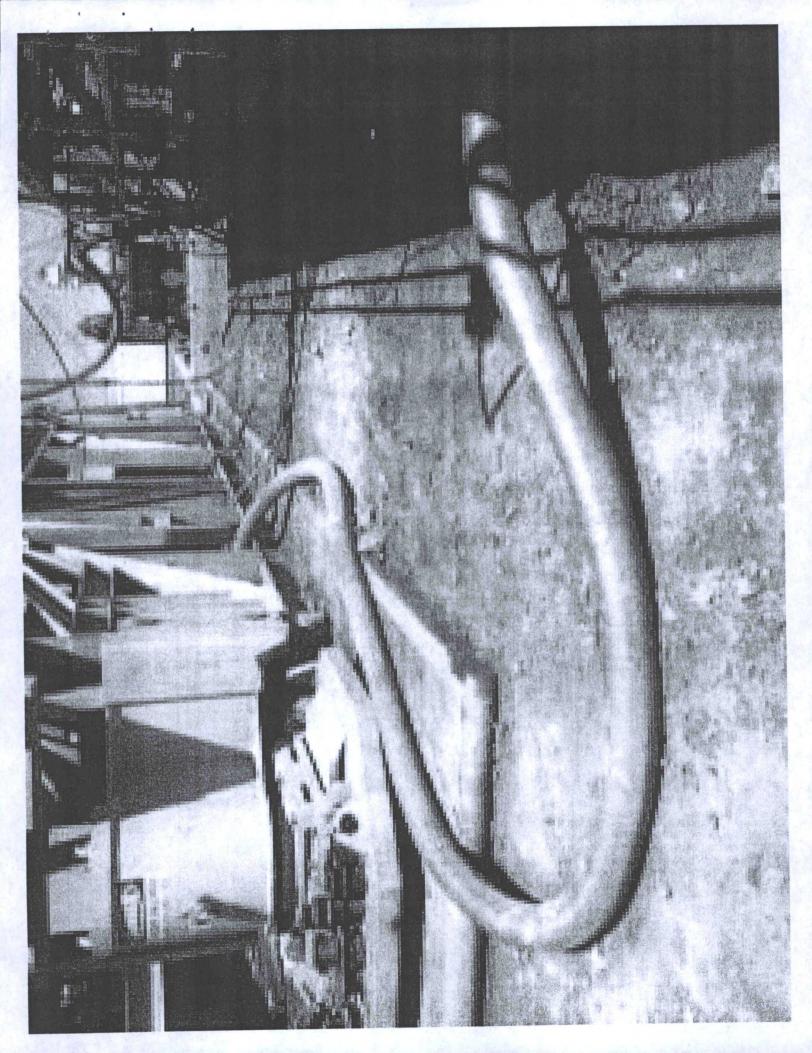
Signature :

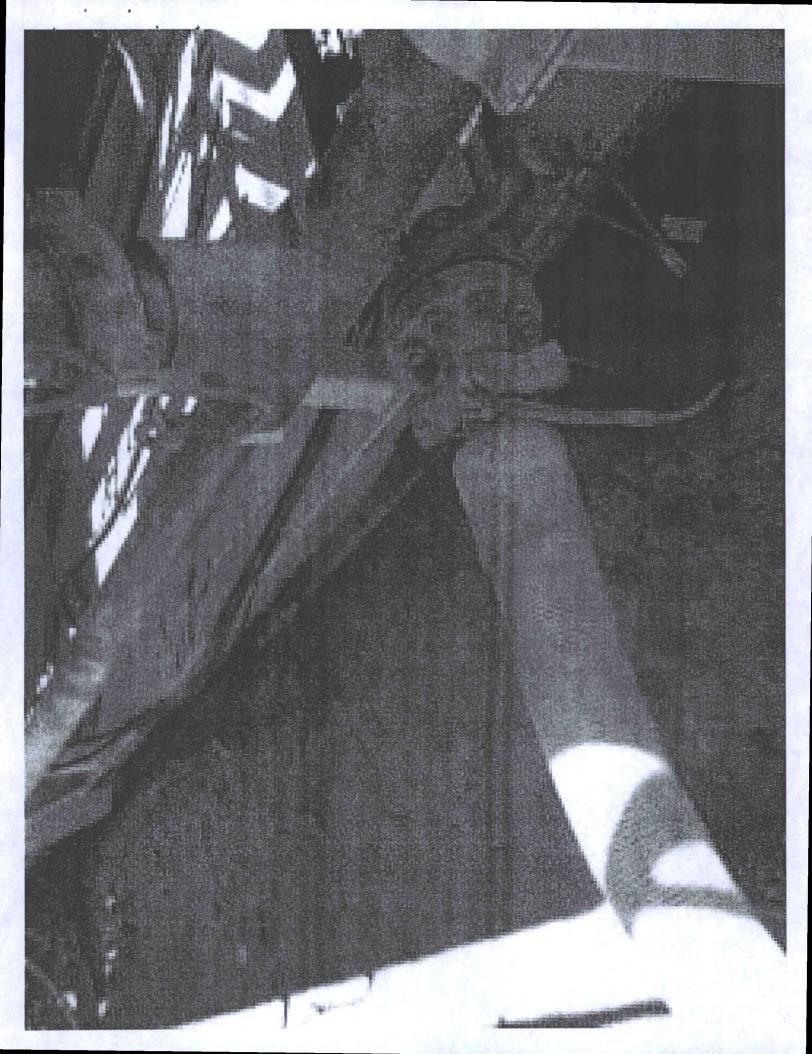
QUALITY 11/22/2013

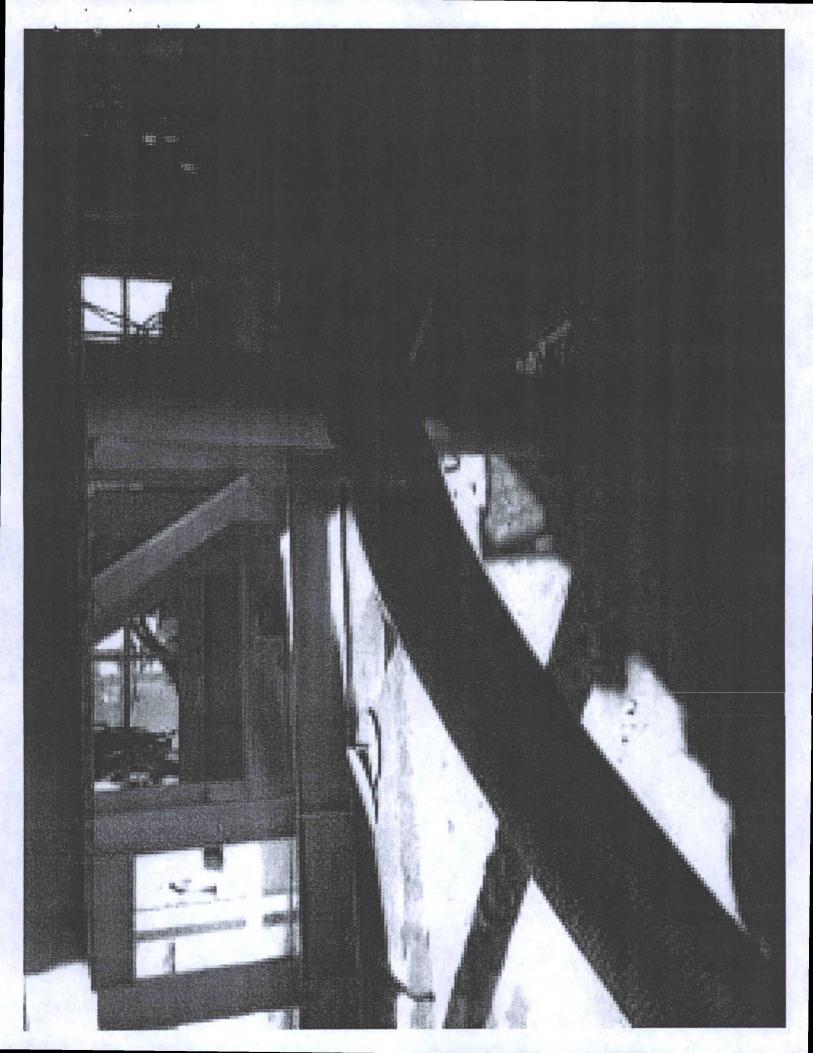
Technical Supervisor: Date :

Signature :

Form PTC - 01 Rev.0 2









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

No records found.

PLSS Search:

Section(s): 34

Township: 25S

Range: 33E



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD Sub-		The Marie	Q	10-17							The support of the support	A PROPERTY OF THE PARTY OF	Water
POD Number	Code basir	County	64	16	4 8	3ec	Tws	Rng	X	Y		Well	Water	Column
C 02312		LE	1	2	1 (05	25S	33E	632241	3559687*	0	150	90	60
C 02313		LE	2	3	3 2	26	25S	33E	636971	3552098*	0	150	110	40
C 02373 CLW317846	0	LE	2	1	1 1	13	258	33E	638518	3556544*	0	625	185	440
C 02373 S		LE	1	2	1 1	13	25\$	33E	638721	3556549*	0	625	185	440

Average Depth to Water: 142 feet

> Minimum Depth: 90 feet

Maximum Depth: 185 feet

Record Count: 4

PLSS Search:

Township: 25S Range: 33E

EMERGENCY CALL LIST

	OFFICE	MOBILE
BTA Oil Producers LLC OFFICE	432-682-3753	
BEN GRIMES, Operations	432-682-3753	432-559-4309
NICK EATON, Drilling	432-682-3753	432-260-7841
CONCHO RESOURCES OFFICE	575-748-6940	
SHERYL BAKER	575-748-6940	432-934-1873
SETH WILD	432-683-7443	432-528-3633
WALTER ROYE	575-748-6940	432-934-1886

EMERGENCY RESPONSE NUMBERS

	OFFICE
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451