			n	
SUNDRY Do not use th	UNITED STATES EPARTMENT OF THE INTERIO SUREAU OF LAND MANAGEMEN NOTICES AND REPORTS O his form for proposals to drill or sill. Use form 3160-3 (APD) for s	N WELLS Arte	sia 5. Lease Se	
SUBMIT IN TR	IPLICATE - Other instructions of	on reverse side.	7. If Unit o	r CA/Agreement, Name and/or No.
1. Type of Well  Ø Oil Well Gas Well Ot	her		8. Well Nar NORTH	ne and No. I BRUSHY DRAW FEDERAL 35 6H .
2. Name of Operator RKI EXPLORATION & PROE	Contact: HEATH LLC E-Mail: hbrehm@rkixp.com	IER BREHM	9. API wei 30-015	II No. -42293-00-X1
3a. Address 210 PARK AVE SUITE 900 OKLAHOMA CITY, OK 7310	one No. (include area code) 05-996-5769 15-949-2223	10. Field ar CORR/	ad Poot, or Exploratory AL CANYON	
4. Location of Well (Footage, Sec., 7	L. R., M., or Survey Description)	<u> </u>	11. County	or Parish, and State
Sec 35 T25S R29E NWNE 17 32.053509 N Lat, 103.571390	75FNL 2290FEL	• .		COUNTY, NM
12. CHECK APP	ROPRIATE BOX(ES) TO INDIC	CATE NATURE OF N	OTICE, REPORT, OF	R OTHER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	· · · · · · · · · · · · · · · · · · ·
Notice of Intent		] Deepen ] Fracture Treat	Production (Start/Re Reclamation	esume) 🔲 Water Shut-Off
Subsequent Report	Casing Repair	New Construction	Recomplete	Ø Other
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporarily Abando	on Drilling Operations
	Convert to Injection	] Plug Back	Water Disposal	·
following completion of the involved testing has been completed. Final Al determined that the site is ready for f Please refer to the revised WE to the original APD as there w Wellbore will still penetrate the Dedicated acreage in the spar	3D, drilling program, directional pl as a change in BHL and POP.	multiple completion or reco ter all requirements, includi an, and plat. Revision	mpletion in a new interval, a ng reclamation, have been co s were made A	IF Form 3160-4 shall be filed once ompleted, and the operator has IL CONSERVATION RTESIA DISTRICT
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #310624 v	· ·		
Comm	For RKI EXPLORATION &	& PROD LLC, sent to the	e Carlsbad	SF)
Name (Printed/Typed) HEATHER			TORY ANALYST	
The second secon			── <del>──────────────────────────────────</del>	OR RECORDI
Signature (Electronic S		Date 07/29/20	15 77	
	THIS SPACE FOR FED	ERAL UR STATE (		
Approved By	·	Title		The only (M/
Conditions of approval, if any, are attached sertify that the applicant holds legal or equivities the applicant to condu- which would entitle the applicant to condu-	itable title to those rights in the subject le		BUREAU OF LAND CARLSBAD FI	D MANAGEMENT IELD OFFICE
Fitle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a crime for a tatements or representations as to any ma	any person knowingly and v tter within its jurisdiction.	villfully to make to any depa	rtment or agency of the United

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\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

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

Form C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

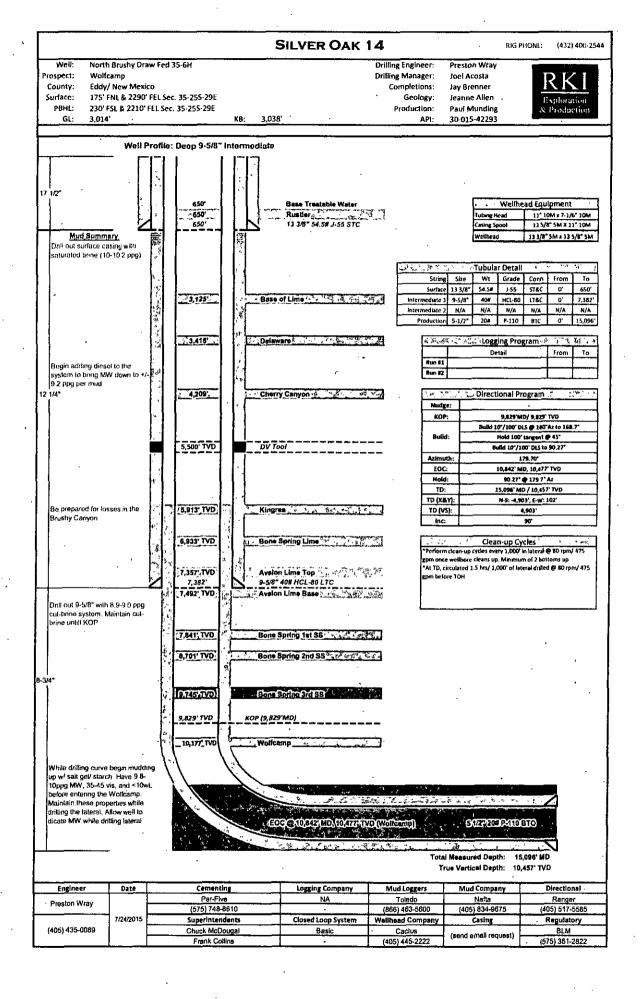
# □ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

	-42293		,	Pool Code Pool Name 98145 WC-015-G-06 52529513 UPPER WOLFCAN					P
Property C 38962	8962 Property Name NORTH BRUSHY DRAW FEDERAL 35							6	
	OGRID No. 246289 RKI		Operator Name RKI EXPLORATION AND PRODUCTION				Eleva 301		
					Surface Locat	ion	······································		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Соилту
. <b>B</b>	35	25 S	29 E		175	NORTH	<u></u> 2290 ່	EAST	EDDY
	• • • • • • • • • •	· ·	Bott	om Hole I	ocation If Diffe	erent From Surfac	e	<u>, , , , , , , , , , , , , , , , , , , </u>	•
UL or lot no.	Section	Township	Kange	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	35	25 S	29 E	·	230	SOUTH	2210	EAST	EDDY
Dedicated Acres	Joint or	Infill	Consolidated Co	le Order	No.				

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

		OPERATOR CERTIFICATION
NW COR SEC 35	175'	f barreles contrate that the data second state and
NMSP-E (NAD 83)	NORTH BRUSHY DRAW 0-2	290' herein is true and complete to the best of my
N (Y) = 397973.5	FEDERAL 35 6H SHL	net one to the only complete of the
E (X) = 655831.6	NMSP-E (NAD 83)	
LAT = 32"05'36.84" N	N (Y) = 397806.7	NMSP-E (NAD 83) either owns a working interest or unleased
LONG = 103*57'49 00" W	E (X) = 658851.2'	N(Y) = 397988.3 mineral interest in the land including the
LONG.* 103.5749.00. W	LAT.= 32"05"35.09" N	r in setting a proposed bottom hole location or has a right to
1	LONG.= 103"57"13.90" W FIRST TAKE	artic these of the times when at times we are parsuant to a
, · ·	330' FNL	Construct when are construct of such a manual of
		LONG = 103'56'47.27" W working interest, or to voluntary pooling
	N (Y) = 397748.6"	agreement or a compulsory pooling order
		heretofore entered by the division.
I		I F
1	E (X) = 658932.1	
	LAT = 32"05"33.56" N	
	LONG.= 103"57"12.96" W	
		4 I
1	NMSP-E (NAD 27)	Signature Date
	N (Y) = 397594.2*	Signature Date
ł		
	E (X) = 617746.9'	
	LAT.= 32.0925317*N	
	LONG.= 103.9531171"W	Print Name
•		
1		
1 ·		
		E-mail Address
· · ·		L'IIOU TOUCA
1		
5		
	·/	SURVEYORS CERTIFICATION
	i l í	SURVEYORS CERTIFICATION
		I hereby certify that the well location shown on this
1		plat was plotted from field notes of actual surveys
1		made by me or under my supervision, and that the
		same is true and correct to the best of my belief.
	- LAST TAKE	
	330' FSL	July 21, 2015
	2210' FEL	Date of Survey
•		Date of Survey
	NMSP-E (NAD 83)	
•		Signature and Seal of Professional Serveyor:
	N (Y) = 393003.3*	
1	E (X) = 658952.8'	Signature and Seal of Protocontal Surveyor:
	LAT.= 32*04'47.55" N	
	LONG.= 103*57*12.91* W	5/2 10/3
	NORTH BRUSHY DRAW NMSP-E (NAD 27)	
	FEDERAL 35 6H BHL N (Y) = 392945.4	
	NMSP-E (NAD 83) E (X) = 617767.5'	SE COR SEC 35
•	N (Y) = 392903.3' LAT. = 32.0797521'N	
	E (X) = 658953.3' LONG.= 103.9531035"W	
	LAT.= 32"04'48.57" N	
SW COR SEC 35	LONG.= 103*57*12.91" W	E (X) = 661164.4'
		LAT = 32*04'44.26" N
NMSP-E (NAD 83)	NMSP-E (NAD 27)	LONG.= 103*56'47.21* W
N (Y) = 392663.4	N (Y) = 392845.4 O	
E (X) = 655847.1	E (X) = 617767.9'	2210' Job No.: WTC50793
LAT.= 32*04'44.30" N	LAT.= 32.0794772"N	300110 111230793
LONG.# 103*57'49.02" W	LONG.= 103.9531031"W 230'	JAMES E. TOMPKINS 14729
		Certificate Number
		Contribute requires



# North Brushy Draw Fed 35-6H



# 17-1/2" Surface Hole

\*\*Send SURFACE CASING REQUEST email 3 days prior to running casing\*\*

1 Perform pre spud inspection with drilling contractor. Ensure everything is RU completely and functioning properly before spudding in.

2 Contact the BLM 24 hrs prior to spud and notify of spud. Note the time, date, and operator you spoke with in the DDR. Also, note time/date when rig was accepted as well as spud date/time on DDR.

#### 3 PU the following BHA to drill surface

<u>BHA #1</u>	
Bit #1	17.5" PDC Logic KS619
Bit Sub	
Mud Motor	8" Baker XLLS 7/8, 4.0 stg, ABH @ 1.5° 0.16 rpg
Shock sub	Blair Tools Shocksub
Roller Reamer	Blair Tools Roller Reamer
Drill Collars	(3) 8"Silver DC
XO	XO (6-5/8" Reg x 4-1/2" XH)
Drill Collars	(9) 6" Silver Oak DC
HWDP .	5" XH Casey Equip HWDP
,	

#### 4 Pump Setup

<u>Pump #1</u>				Pump #2	2
Liner Size	6	in	Liner Size	6	in
Stroke Length	12	in	Stroke Length	12	. in
Eff	0.95	%	Eff	0.95	% !
Output	0.0997272	bbl/stk	Output	0.099727	bbi/stk
Pump Rate	356	gpm @85 stk/min	Pump Rate	356	gpm @85 stk/min
Pump Rate	461	gpm @110 stk/min	Pump Rate	461	gpm @110 stk/min
Pressure Rating	3736	psi (80% of max)	Pressure Rating	3736	psi (80% of max)

5 Drill 17-1/2" surface to +/- 650'

•Take surveys every 90' to TD, contact OKC if deviation exceeds 3 degrees

• Pump +/-800 gpm and vary WOB (25-30K) and RPM (100-120) to maximize p-rate

Sweep hole clean prior to TOH.

• Pump fuild caliper prior to TOH f/ casing

• Run GYRO prior to TOH f/ casing, if needed

### 6 Mud Properties (see attached mud program for details)

inter i l'operates	See allabile	e men propri	
	MW	8.3-9.0	ppg
	Vis	32-40	sec/qt
From Spud to	PV	3-12	ср
Surface TD	YP	4-14	lb/100ft sq
	API FL	NC	mL/30min
	Solids	3-5	%

RU casing crew and run

7

#### of 13-3/8" 54.50# J-55 STC

•Run guide shoe, 1 joint of casing, & float (tack weld float euipment)

Centralize first 3 joints and every other joint to surface

. •Run cement basket @ base of conductor, if losses occur while drilling discuss not running cement basket with engineer

650'

13-3/8" 54.50# J-55 STC					
Collapse (100%)	1,130 psi	Displacement	0.6946 cuft/ft		
Burst (100%)	2,730 psi	Displacement	0.12372 bbl/ft		
Yield (100%)	514,000 lb	Capacity	0.1546 bbl/ft		

8 RD casing crew and rig up cementers (Par Five). Have 1" tubing available for top out. Pump the following volumes

Pre Flush:	20 bbl	Gel Spacer
Lead:	368 sks	Class C w/ 4%PF20, 1%PF1,.125pps PF29, .4pps PF45
Density	13.5 ppg	
Yield	1.73 cuft/sk	
Mix H2O	9.123 gal/sk	
Excess	200%	2
Tail	200 sks	Class C w/ 1%PF1
Density	14.8 ppg	
Yield	1.33 cuft/sk	
Mix H2O	6.309 gal/sk	
Excess	%	
		•

Top of cement calculated to surface. Confirm cement volumes with fluid caliper prior to pumping.

# Displacement 93.7 bbls Brine water

•Recalculate displacement volumes to float collar once casing is landed. Do not over displace.

• Release pressure and verify that float is holding. If float does not hold, pressure up and check again. If float still does not hold, trap final displacement pressure + 500 psi for 4 hours.

• Note: if cement is not circulated to surface, notify engineer and superintendent. Contact TRRC and call out wireline truck for temp survey.

#### 9

Install 13-3/8" SOW x 13-5/8" SM starting head with 2" SM ball valve on one outlet and bull plug on the other, test head to 1000 psi. NU BOPE and test with 3rd party company to 250 psi low/5000 psi high (annular to 250 psi low/ 2000 psi high). Keep charted tests on file for duration of well.

• Contact Riley Stafford @ Cactus Wellhead, 405-445-2222 for casing head.

· Install wear bushing prior to drilling out.

# 12-1/4" Intermediate Hole

\*\*Send INTERMEDIATE CASING REQUEST email at least 3 days prior to running casing\*\* 1 PU the following BHA;

Bit	12-1/4"PDC Logic PLSs616S6E PDC/(3x14's,3x15's) TFA:0.9687			
Vertical Scout	Vertical Scout			
Mud Motor	9-5/8", Turbo Scout, 7/8 3.4 stg/0.08 rpg/ w/ 12-1/8" stabilizer			
NMDC	Scout Pony NMDC			
UBHO	Scout UBHO			
NMDC	Scout NMDC/ MWD w/gamma			
IBS	Rental 12-1/8" IBS (1/8" under gauge)			
Drill Collars	(3) 8" DC			
Drill Collars	(9) 6" DC			
Jars	Blair Tools Hydraulic Jars			
HWDP ·	5" HWDP			

#### 2 Pump Setup

	<u>Pump #1</u>			Pump #2	<u>.</u>
Liner Size	6	in	Liner Size	6	in
Stroke Length	12	in	Stroke Length	12	in
Eff	0.95	%	Eff	0.95	%
Output	0.0997272	bbi/stk	Output	0.099727	bbl/stk
Pump Rate	356	gpm @85 stk/min	Pump Rate	356	gpm @85 stk/min
Pump Rate	461	gpm @110 stk/min	Pump Rate	461	gpm @110 stk/min
Pressure Rating	3736	psi (80% of max)	Pressure Rating	3736'≦;	psi (80% of max)

3 TiH to float collar, test casing to 1500 psi for 5 min prior to drilling out float euipment.

4 Drill shoe track and drill ahead following sound drilling practices.

• Pump +/-800 gpm and vary WOB and RPM to maximize ROP.

• Drill out with a 10-10.2ppg saturated brine (150-180K chlorides)

· Run centrifuge as needed to control weight, DO NOT dilute with FW to control weight

Planned nudge:

Begin introducing diesel into the sytem at
 4,000' TVD

• Diesel will be used to cut MW to +/-9.2 ppg (roughly 60/40 WOR), see mud program for details and mixing procedures.

• Take surveys every +/- 90' (must take survey every 200' per TRRC)

• Lost circulation is possible through the Delaware formations. Be sure MW is below 9.4 ppg (from the addition of diesel) before drilling into the Brushy Canyon. If seepage/ losses occurs, treat with LCM. If complete losses occur, PU above loss zone, spot an LCM pill and allow hole to heal for an hour before attempting to establish returns.

• Planned TD for this hole section is **7,382'** . Confirm casing point with onsite geologist and engineer prior to TOH. Be sure to drill +/-20' of rathole so casing can be landed in the wellhead.

•Once TD is reached, circulate hole clean and TOH f/ logs

We will be running OH logs f/ TD to surface with
 NA

5 Mud Properties (see attached mud program for details)

Interval	Mud Type		Properti	es
	· ·	MW	10-10.2	ppg
	ļ	Vis	29-32	sec/qt
Surface csg -	Brine	PV	NC NC	ср
4;000' TVD	Brine	YP	NC⊊_>	lb/100ft sq
		API FL	NC	mL/30min
		Chlorides	150-180K	ppm
		MW	9.2-9.3	ppg
		Vis	32-40	sec/qt
4 0001 71/D		PV	10-12	ср
4,000' TVD - Intermediate TD	Diesel-Brine	ΥP	10-12	lb/100ft sq
		API FL	NC	mL/30min
		Chlorides	150-180K	ppm
		Diesel	30-35	%

6 R/U casing crew and run 9-5/8" 40# HCL-80 LTC casing as follows;

• Pull wear bushing before running casing!

- Float Shoe
- 1 joint
- Float Collar

• DV Tool @ 5,500'

\*Confirm casing tally with engineers prior to running\*

9-5/8" 40# HCL-80 LTC						
Collapse	4,230 -	psi	Annular Vol.	12-1/4" x 9-5/8" csg	0.3132 cuft/ft	
Burst	5,750	psi	Annular Vol.	13-3/8"csg x 9-5/8"csg	0.3627 cuft/ft	
Yield	837,000	lb	Capacity	-	0.0758 bbl/ft	

• It is not required to tag bottom to verfiy hole depth.

· Before making up mandrel and landing joint, verify correct number of joints were left out

· Verify casing landed properly through sight ports in wellhead.

7 RD casing crew and rig up cementers (Par Five). Circulate 1.5 times casing capacity to ensure casing is clear. Pump the following volumes

	Final cement volum	nes will be emailed out prior to running casing.
<u>1st Stage:</u> <u>Pre Flush:</u>	20 bbl	Gel Spacer w/ Dye
Lead:	677.sks	PVL w/ 1.3%PF44, 5%PF174,.5% PF606, .3% PF813,.1%PF153,
Density	13 ppg	.4ppsPF45
Yield	1.48 cuft/sk	
Mix H2O	7.609 gal/sk	
Excess	1.7	70%
DV Tool	5,500'	1. 1. ž. 17.20 p
Displacement	556.2 bbls	Cut Brine

• Bump plug to 500 psi over final displacement pressure. Release pressure to verify floats are holding.

• Drop DV opening tool, wait +/- 45 minuntes, and pressure up to +/-750 psi to open tool.

Circulate 4 hrs through DV Tool with prior to pumping 2nd stage

### 2nd Stage:

Lead:	1377 sks	35/65 Poz Class C w/ 5%PF44, 6%PF20, 125pps PF29,
Density	11.6 ppg	.4pps PF45, 3pps PF42, 1%PF79, 4%PF61
Yield	2.87 cuft/sk	
Mix H2O	16.787 gał/sk	
Excess	2.6	160%
Top of Cement	Surface	
· ·	· · · · · · · ·	,
Tail	175 sks	Class C w/ .2% PF13
Density	14.8 ppg	
Yield	1.33 cuft/sk	
Mix H2O	6.307 gai/sk	
Excess .	· %	
Displacement	416.9 bbls	Cut Brine (+/-9.0-9.2)

8 RD cementers and set pack off with Cactus Wellhead representative
Test upper and lower seals to 5000 psi.

# 8-3/4" Veritcal

\*\*Send PRODUCTION CASING REQUEST email at least 3 days prior to running casing\*\*

1 PU the following BHA

	Component:	Details:		
	Bit #1	8-3/4" Insert bit		
1	Bit Sub			

2 TIH to DV Tool,

•Test casing before drilling DV Tool to 1,500 psi for 30 minutes. If surface pressure loss is greater than 10% of initial test pressure, contact engineer.

•Drill DV Tool and repeat casing test to 1,500 psi for 30 minutes. If surface pressure loss is greater than 10% of initial test pressure, contact engineer.

\*Continue to TIH to FC, drill shoe track and 10'-15' of formation

•Perform FIT to 11.0 ppg MW equivalent

TOH f/ directional assembly

### 3 PU the following BHA

Bit #1	8.75" PDC Logic PLT 616D (3x12, 3x11)	
Vertical Scout	Vertical Scout	
Mud Motor	6-3/4" Turbo Scout mtr 7/8 5 stg/0.28 rpg/ w/ 8-5/8" stab	
NMDC	Scout Pony NMDC	
UBHO	Scout UBHO	
NMDC	Scout NMDC/ MWD w/gamma	
IBS	Rental 8-5/8" IBS (1/8" under gauge)	
Drill Collars	(6) 6" Silver Oak DC	
XO		
HWDP	5" HWDP (Casey Equip)	

#### 4 Pump Setup

	Pump #1	·		Pump #2	2
Liner Size	6	in	Liner Size	6	in
Stroke Length	12	in	Stroke Length	12	in
Eff	0.95	%	Eff	0.95	%,
Output	0.0997272	bbl/stk	Output	0.099727	bbl/stk
Pump Rate	356	gpm @85 stk/min	Pump Rate	. 356	gpm @85 stk/min
Pump Rate	. 461	gpm @110 stk/min	Pump Rate	461	gpm @110 stk/min
Pressure Rating	, ,3736	psi (80% of max)	Pressure Rating	3736	<ul> <li>psi (80% of max)</li> </ul>

5 Drill ahead following sound drilling practices.

• Pump maximize gpm and vary WOB and RPM to maximize ROP.

Contact OKC in target window is exceeded (target window = 50' radius around well plan)

•Utilize a cut-brine mud sytem (see mud program). Mud additives should be keep to a minimum while drilling the hole section

•Planned KOP is 9,829' TVD , TOH +/-100' before planned KOP

•Circulate hole clean and TOH for logs. (verfiy OH logs will be run w/ engineer)

# 6 Logging Program (verify logging program with engineer)

	Company		Interval	
	сопрану	Log Type	To:	From:
Run #1	NA	0	0'	0'
Run #2	NA	0	0'	0 <sup>1</sup>

### 7 Mud Properties (see attached mud program for details)

	мw	9.0-9.3	ppg
	Vis	28-32	sec/qt
From 9-5/8" csg	PV	-	. ср
to KOP	YP	-	lb/100ft sq
	API FL	NC	mL/30min
;	Solids	< 3	%

## 8-3/4" Curve

1 PU the following BHA

Bit #1	8.75" Baker HP624 (Kymera)	
Mud Motor	6.5" Baker 5/6; 6.0 stg ABH @ 2.25°, 0.33 rpg	
UBHO	Drill Tech UBHO	
NMDC 6.5" Monel		
NMDC	6.5" Flex Monel	
DP ·	20 Stds -5" DP (Casey Equipment)	
HWDP	16 Stds- 5" HWDP (Casey Equipment)	

#### 2 Pump Setup

	<u>Pump #1</u>	•		Pump #2	2
Liner Size	6	in	Liner Size	6	- in
Stroke Length	12	in	Stroke Length	12	in
Eřf	0.95	%	Eff	0.95	%
Output	0.0997272 <sup>.</sup>	bbl/stk	Output	0.099727	bbl/stk
Pump Rate	356 ·	gpm @85 stk/min	Pump Rate	356	gpm @85 stk/min
Pump Rate	461	gpm @110 stk/min	Pump Rate	461	gpm @110 stk/min
Pressure Rating	j3736_ <i>∞</i>	psi (80% of max)	Pressure Rating	3736	psi (80% of max)

3 Drill ahead following sound drilling practices.

• Pump maximum gpm and vary WOB to maximize ROP.

Kick off 100' above planned KOP

Build curve per attached directional plan.

• Slide 100% until the first survey is seen. Adjust rotate/ slide ratio based on motor yield.

• If at any point while building the curve the motor is yielding less than DLS required to land on target, call and discuss with Superintendent and Engineer.

• Once curve is landed, circulate hole clean and TOH f/ lateral assembly, refer to Wolfcamp tripping procedures below.

### **4** Directional Details:

KOP:	9,829'MD/ 9,829' TVD		
	Build 10°/100' DLS @ 140°Az to 168.7°		
Build:	Hold 100' tangent @ 45°		
Γ	Build 10°/100' DLS to 90.27°		
Azimuth:	179.7		
EOC:	10,842' MD, 10,477' TVD		
Hold:	90.27° @ 179.7° Az		

### 5 Mud Properties (see attached mud program for details)

<u></u>	MW	9.4-10.0	ppg
	Vis	35-45	sec/qt
	PV	10-20	ср
From KOP to EOC	YΡ	10-20	lb/100ft sq
	API FL	8-10	mL/30min
	Solids	< 3	%

• Begin a gradual mud up w/ Starch and Salt Gel while drilling the curve

Mud up should be complete by top of Wolfcamp

• Allow well to dictate MW

# 8-3/4" Production Lateral

# 1 PU the following BHA

Bit #1	8.75" PDC (discuss w/ engineer)
Mud Motor	6.5" Baker 5/6, 6.0 stg ABH @ 1.5°, 0.33 rpg
UBHO	Drill Tech UBHO
NMDC	6.5" Monel
NMDC	6.5" Flex Monel
DP	20 Stds -5" DP (Casey Equipment)
XRV .	TTS XRV Agitator
DP	5" DP (Casey Equipment)
HWDP 5" HWDP (Casey Equipment)	

#### 2 Pump Setup

	Pump #1		Pump #2								
Liner Size 6		in	Liner Size	6	in -						
Stroke Length	12	in	Stroke Length	12	in						
Eff	0.95	%	Eff	0.95	%						
Output	0.0997272	bbl/stk	Output	0.099727	bbl/stk						
Pump Rate	356	gpm @85 stk/min	Pump Rate	356	gpm @85 stk/min						
Pump Rate	Pump Rate 461 gpm @110 stk/min		Pump Rate	461	gpm @110 stk/min						
Pressure Rating	3736	· psi (80% of max)	Pressure Rating	l) · 3736 🔅	'psi (80% of max)						

3 Drill ahead following sound drilling practices.

• Drill lateral per attached directional plan

• Target Window: 20' high/low; 50' left/right

• Pump maximum gpm and vary WOB and RPM to maximize ROP.

• Monitor PU, SO, and ROT weights and TQ while drilling the lateral for hole cleaning indications.

• Perform clean-up cycles every +/- 1,000' (or as needed) @ 450 gpm / 85 rpm

•Wolfcamp Tripping Procedure: Circulate hole clean. Pump first 10 stands off bottom and break circulation every 500'. Ensure hole is taking proper fill. If well is flowing, calculate/ pump ECD pill before continuing to TOH. If excess drag is seen or hole is packing off, STOP and circulate hole clean before continuing to TOH! Stop before BHA reaches EOC and circulate hole clean before tripping BHA through the curve.

• USE DP SCREEN ANYTIME PUMP IS ON THE HOLE !!

### 4 Directional Details:

Target TVD	10,477'
Target Window	20' high/low; 50' left/right
TD:	15,096' MD / 10,457' TVD
TD (X&Y):	N-S: -4,903', E-W: 102'
TD (VS):	4903
Inc: .	90.27*

#### 5 Mud Properties (see attached mud program for details)

	MW	9.4-10.0	ppg
	Vis	35-45	sec/qt
From KOP to EOC	PV	10-20	ср
From KOP to EOC	ΥP	10-20	lb/100ft sq
	API FL	8-10	mL/30min
	Solids	< 3	%

Maintain a 10 WL or lower throughout the lateral

Allow well to dictate MW

• Discuss the addition of lubricants with Superintendent and Engineer if sliding becomes an issue in the lateral.

6 Clean-up Cycle/ TOH @ TD Procedure

• TD well at BHL per directional plan, confirm TD with Superintendent and Engineer

Circulate 1.5 hrs for every 1,000' of lateral @450 gpm/85 rpm. Recipocate pipe while performing clean-up.
 Record PU/SO/ROT string weights and TQ every hour (in clean-up cycle spreadsheet) and send to Engineer and Superintendent for review prior to TOH.

•Pump first 10 stands off bottom and break circulation every 500'. Ensure hole is taking proper fill. If well is flowing, calculate/ pump ECD pill before continuing to TOH. If excess drag is seen or hole is packing off, **STOP** and circulate hole clean before continuing to TOH!

• Stop before BHA reaches EOC and circulate hole clean before tripping BHA through the curve.

• USE DP SCREEN ANYTIME PUMP IS ON THE HOLE!!

• Begin LD drill pipe @ KOP

#### 7 Production Casing Requirements

3rd Party casing inpection must be monitored by TH Hill

Torque Turn must be utilized while running casing

Thread rep must monitor casing run if premium thread is utilized.

• TH Hill representative must monitor casing run

8 R/U casing crew and run 5-1/2" 20# P-110 BTC casing as follows;

•Pull wear before running casing!

Float Shoe

• 2 joints

Float Collar w/ latch down plug

Marker joints @ middle of lateral and 500' above KOP

### \*Confirm casing tally with engineers prior to running\*

	5-1/2" 20# P-110 BTC											
Collapse	11,080	psi	Annular Vol.	8-3/4" x 5-1/2" csg	0.2526 cuft/ft							
Burst	12,360	psi :	Annular Vol.	9-5/8"csg x 5-1/2" csg	0.2607 cuft/ft							
Yield	641,000	lb	Capacity	-	0.0222 bbl/ft							

Tag bottom to verfiy hole depth.

9 RD casing crew and rig up cementers (Par Five). Circulate 1.5 time casing capacity to ensure casing is clear. Pump the following volumes

Final cement volumes will be emailed out prior to running casing.Pre Flush:30 bblPar Five Mud Wash

•		• ,
Lead:	652 sks	PVL w/ 1.3%PF44, 5%PF174,.5% PF606, .4% PF813, .1% PF153,
Density	13 ppg	.4 pps PF45,
Yield	1.48 cuft/sk	
Mix H2O	7.573 gai/sk	
Excess	1.35	35%
Top of Cmt	. 6,882'	
<u>Tail</u>	<b>950</b> sks	AcidSolid PVL w/ 1.3%PF44, 5%PF174,.1% PF153,.7% PF606,
Density	13 ppg	.4% PF813, 30% PF151, .4pps PF45
Yield	1.89 cuft/sk	
Mix H2O	9.632 gal/sk	
Excess	1.35	<b>35%</b>

Displacement 333.3 bbls Freshwater

Recalculate displacement volumes to float collar once casing is landed.

If plug does not bump at calculated displacement, call OKC to discuss options before overdisplacing.
Release pressure and verify that float is holding. If float does not hold, pressure up and check again. If

float still does not hold, trap final displacement pressure + 500 psi for 4 hours.

10 ND BOPE and NU 7-1/16" 10M x 11" 10M tubing head and test to 5,000 psi. Note tubing head specs and test details in DDR.

11 Clean pits and prep to release rig. Clear location of trash and verify mouse hole and rat hole are properly covered or abandoned.

# Appendix

a.

Hole Section	Wellbore	Annular Volume				
	Outside	Inside	cuft/ft	bbl/ft		
Surface	17-1/2"	13-3/8" 54.5# J-55	0.6946	0.12372		
Intermediate	13-3/8" 54.5# J-55	9-5/8" 40# HCL-80 LTC	0.3627	0.0646		
	12-1/4"	9-5/8" 40# HCL-80 LTC	0.3132	0.05578		
Production	9-5/8" 40# HCL-80 LTC	5-1/2" 20# P-110 BTC	0.2607	0.0464		
	8-3/4"	5-1/2" 20# P-110 BTC	0.2526	0.04499		

Ъ.		Capacities		
	Surface	13-3/8" 54.50# J-55 STC	0.1546	bbl/ft
- (	Intermediate	9-5/8" 40# HCL-80 LTC	0.0758	bbl/ft
	Production	5-1/2" 20# P-110 BTC	0.0222 /	bbl/ft

c.	

Liner Pressure Rating								
Liner Size (in)	Max Pressure (psi)	80% Pressure Rating (psi)						
5	5000	4000						
5.5	5000	4000						
6	4670	3736						
6.25	4300	3440						
6.5	3975	3180						
6.75	3690	2952						
7	3430	2744						

d. Drill Pipe Specs

•See attached

DISTRICTI 1025 N. Franch Dv., Hubbe, NN# 38240 Phone: 45751 993-0161 Fax: (5751 993-0720 Phase: 45251 993-0301 year 43232 DISTRICT 11 511:5: Emil 51, Athene, NMS 88210 Thome: (575) 748-1283 Jan: (575) 748-9720 From: (S75) (44-1203 act(S75) 740-9220 DISTRICT 111 1000 Roc Brazon Rd., Arter, SNS 87410 Thom: 1505(334-6170 Fact(S05) 534-6370 DISTRICT IV 1220 S. St. Francis Dr., Sana Fr., 201 11505 Phone: 15051476 5460 East, 15051476 5462

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

## Form C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

# □ AMENDED REPORT

	·	WEL	L LOCA	TIONA	ND AC	REA	GE DEDICA'I	TON PLAT							
A	API Number	•		Pool Code 98145		Pool Name WC-015-G-06 52529513 UPPER WOLFCAMP									
Property C	ode		N	IORTH B	•	operty Name									
OGRIÐ N 24628			R	PRODUCTION	`	Flevat 301	•								
-					Surface	Locati	on			······································					
UL of lot no.	Section	Township	Range	Lot Idn	Feet from	n the	North/South line	Feet from the	East/West line	County					
В	35	25 S	29 E		17	5	NORTH	2290	EAST	EDDY					
			Botte	om Hole I	Location 1	f Diffe	rent From Surfac	e	<b></b>	•					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	n the	North/South line	Feet from the	East/West line	County					
Ο,	35	25 S	29 E		230	כ	SOUTH	2210	EAST	EDDY					
Dedicated Acres	Joint or	liñal i	Consolidated Cod	le Order	r No				· · · ·						
160				-											

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

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LONG.= 103 9531171 W         Print Name           LONG.= 103 9531171 W         Print Name           E-mail Address         E-mail Address           Burger State         SURVEYORS CERTIFICATION I hareby certify that the well location shown on this plat vois plotted from field noise of achout surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.           SW COR SEC 35 IN (7) = 302063.1 N (7) = 302063.2 E (2) = 65092.2 ILT = 327044.35" N         SE COR SEC 35 LAT = 327044.35" N           SW COR SEC 35 IN (7) = 302063.4 N (7) = 302063.4 ILT = 327044.35" N         MMSPE (MAD 83) LAT = 327044.35" N           SW COR SEC 35 IN (7) = 302063.4 ILT = 327044.35" N         SE COR SEC 35 LAT = 327044.35" N           SW COR SEC 35 IN (7) = 302663.4 ILT = 327044.35" N         SE COR SEC 35 LAT = 327044.35" N           NGPE (MAD 83) IN (7) = 302663.4 ILT = 327044.35" N         SE COR SEC 35 LAT = 327044.35" N           NGPE (MAD 83) IN (7) = 302663.4 ILT = 327044.35" N         SE COR SEC 35 LAT = 327044.35" N           NGPE (MAD 83) IN (7) = 302663.4 ILT = 327044.35" N         SE COR SEC 35 LAT = 327044.35" N           NGPE (MAD 83) IN (7) = 302663.4 ILT = 327044.35" N         SE COR SEC 35 LAT = 327044.35" N           NGPE (MAD 83) IN (7) = 302663.4 ILT = 327044.35" N         SE COR SEC 35 LAT = 327044.35" N           NGPE (MAD 83) IN (7) = 302663.4 ILT = 327044.35" N         SE COR SEC 35 LAT = 327044.35" N           NGPE (MAD 83) IN (7) = 302663.4 ILT = 327044.35" N </td <td>1</td> <td></td> <td>-</td> <td></td>	1		-	
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LAST TAKE           330 FSL           310 FEL           NMSP-E (NAD 83) N (Y) = 33000.3* E (AT - 320443.5* N LONG = 103/57129 W           NORTH BRUSHY DRAW           YEDFRAL 35 GH BHL NMSP-E (NAD 83) N (Y) = 332683.4* E (AT - 320/07/521 N) E (AT - 320/07/521 N)           SW COR SEC 35 NMSP-E (NAD 83) N (Y) = 332683.4* E (AT - 320/07/521 N) LONG = 103/57129 V           SW COR SEC 35 LAT - 320/07/521 N           SW COR SEC 35 LAT - 320/07/521 N           MMSP-E (NAD 83) N (Y) = 332683.4* E (A) = 60/571/21 V           E (A) = 60/571/21 V           LONG = 103/571/21 V           LAT - 320/07/52 N           LONG = 103/571/21 V           LONG = 103/5	1			
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SW COR SEC 35         LAST TAKE           SW COR SEC 35         LONG = 103*57*12.91*W           LONG = 103*57*12.91*W         LONG = 103*5547.21*W           SW COR SEC 35         MMSP-E (NAD 83) N (Y) = 392885.4           LONG = 103*57*12.91*W         LONG = 103*5547.21*W           SW COR SEC 35         MMSP-E (NAD 83) N (Y) = 392885.4           LONG = 103*57*12.91*W         LONG = 103*5647.21*W           LONG = 103*57*12.91*W         LONG = 103*5647.21*W           LONG = 103*57*12.91*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*				E-mail Address
SW COR SEC 35         LAST TAKE           SW COR SEC 35         LONG = 103*57*12.91*W           LONG = 103*57*12.91*W         LONG = 103*5547.21*W           SW COR SEC 35         MMSP-E (NAD 83) N (Y) = 392885.4           LONG = 103*57*12.91*W         LONG = 103*5547.21*W           SW COR SEC 35         MMSP-E (NAD 83) N (Y) = 392885.4           LONG = 103*57*12.91*W         LONG = 103*5647.21*W           LONG = 103*57*12.91*W         LONG = 103*5647.21*W           LONG = 103*57*12.91*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*10 LONG = 103*5647.21*W         LONG = 103*5647.21*W           LONG = 103*57*			ļ į	
SW COR SEC 35         Image: Imag				
Image: Structure         Image: Structure<				SURVEYORS CERTIFICATION
Image: Structure and Seal of Protestate           SW COR SEC 35           SW COR SEC 35           Image: Structure and Seal of Protestate           Image: Structure and Seal of Protestate           Image: Structure and Seal of Protestate           SW COR SEC 35           Image: Structure and Seal of Protestate				I hereby certify that the well location shown on this
SW COR SEC 35       NMSP-E (MAD 83) N (Y) = 392003.2' E (X) = 65893.4' E (X) = 65893.4' E (X) = 658947.1' LONG = 103*5712.91'W       NMSP-E (MAD 83) N (Y) = 392003.2' E (X) = 65894.5' LAT.= 32*0444.28'N LONG.= 103*5712.91'W       NMSP-E (MAD 83) N (Y) = 392045.4' E (X) = 661164.4' LAT.= 32*0444.28'N LONG.= 103*5712.91'W       SE COR SEC 35 LAT.= 32*0444.28'N LONG.= 103*5712.91'W       SE COR SEC 35 LAT.= 32*0444.28'N LONG.= 103*5712.91'W				plat was plotted from field notes of actual surveys
LAST TAKE 307 FSL           307 FSL           201 FEL           NMSP-E (NAD 83) N (7) = 39200.3' E (AT) = 505062.8' LAT = 3270447.5ST N           NORTH BRUSHY DRAW FEDERAL 35 6H BHL NMSP-E (NAD 27) N (7) = 39203.3' E (X) = 65663.3' LAT = 3270442.5TN           NMSP-E (NAD 83) N (7) = 392045.4' LAT = 3270442.5'TN           NMSP-E (NAD 83) N (7) = 392045.4' E (X) = 65663.3' LAT = 3270442.5'TN           NMSP-E (NAD 83) N (7) = 392045.4' E (X) = 65663.3' LAT = 3270442.5'TN           NMSP-E (NAD 83) N (7) = 392645.4' E (X) = 656647.1' LAT = 3270442.8'TN           NMSP-E (NAD 83) N (7) = 392645.4' E (X) = 665647.1' LAT = 3270442.8'TN           LAT = 3270442.3'TN           NMSP-E (NAD 83) N (7) = 392645.4' E (X) = 665647.1' LAT = 3270442.8'TN           LAT = 3270442.30'TN LONG = 103:95712.91'W           230'	,			made by me or under my supervision, and that the
330 FSL           330 FSL           2210 FEL           NMSP-E (NAD 83)           N (Y) = 393003.3'           E (X) = 65982.8'           LAT = 3270147.5'           SW COR SEC 35           NMSP-E (NAD 83)           N (Y) = 392803.3'           E (X) = 65983.3'           LAT = 3270147.5'           SW COR SEC 35           NMSP-E (NAD 83)           N(Y) = 392680.4           E (X) = 665984.1'           LAT = 3270444.30'N           LAT = 3270444.30'N           LAT = 3270444.30'N           LAT = 3270444.30'N				same is in de dias correct to the dest of mig beney.
SW COR SEC 35         NMSP-E (NAD 83) K (Y) = 392003.3' E (X) = 655962.8' LAT = 32'04'4.30' N LONG = 103'57'12.91' W         NMSP-E (NAD 83) K (Y) = 392863.4' E (X) = 655963.4' E (X) = 6559647.21'W         Date of Survey Signature and Seal of Protocold Survey Survey Survey Signature and Seal of Protocold Survey				July 21, 2015
NMSP-E (NAD 83) N (Y) = 398003.3' E (X) = 65982.2' LAT = 32'04'45.3'' N LONG = 103'57'12.91' W         NMSP-E (NAD 83) N (Y) = 392803.3' E (X) = 65983.3' LAT = 32'04'45.3'' N LONG = 103'57'12.91' W         NMSP-E (NAD 83) N (Y) = 392803.3' E (X) = 665863.3' LONG = 103'57'12.91' W         NMSP-E (NAD 83) N (Y) = 392803.3' E (X) = 665164.4' LAT = 32'04'44.30' N LONG = 103'56'47.21' W         NMSP-E (NAD 83) N (Y) = 392680.8 E (X) = 665164.4' LAT = 32'04'44.30' N LONG = 103'56'47.21' W         NMSP-E (NAD 83) N (Y) = 32'645.3' LONG = 103'56'47.21' W         NMSP-E (NAD 83) N (Y) = 32'645.4' E (X) = 665164.4' LAT = 32'04'44.20' N LONG = 103'56'47.21' W         SE COR SEC 35 SW COR SEC 35 LONG = 103'56'47.21' W         SE COR SEC 35 LONG = 103'56'47.21' W           SW COR SEC 35 N (Y) = 32'645.4' E (X) = 665164.4' LAT = 32'04'44.30' N LONG = 103'56'47.21' W         SE COR SEC 35 LONG = 103'56'47.21' W         SE COR SEC 35 LONG = 103'56'47.21' W           LAT = 32'04'44.30' N LONG = 103'57'48.02' W         LONG = 103'56'47.21' W         Job Not. WTC 50793 JAMES E. TOMPKINS 14729				
N (Y) = \$\$\$003.3' E (X) = \$\$50\$2.2' LAT. = 32'04'4.3.5' N         Number E (NAD 27) LONG. = 103'57'12.91' W         Number E (NAD 27) NMSP-E (NAD 83) N (Y) = \$\$2803.3' E (X) = \$\$5083.2' LAT. = 32'04'4.30' N         Number E (NAD 27) LAT. = 32'04'4.30' N         Number E (NAD 27) LAT. = 32'04'4.30' N         Number E (NAD 27) LAT. = 32'04'44.30' N         Job Not.         Job Not.         Job Not.         Job Not.         Job Not.         JAMES E. TOMPKINS 14729         JAMES E. TOMPKINS 14729         JAMES E. TOMPKINS 14729				Date of Survey
NORTH BRUSHY DRAW         NORTH BRUSHY DRAW         NMSP-E (NAD 27)         NMSP-E (NAD 27)           NMSP-E (NAD 83)         NMSP-E (NAD 83)         NMSP-E (NAD 83)         NMSP-E (NAD 83)           SW COR SEC 35         LCH = 32 047/52 '' N         SE COR SEC 35         LAT = 32 047/52 '' N           NMSP-E (NAD 83)         NMSP-E (NAD 83)         NMSP-E (NAD 83)         NMSP-E (NAD 83)           NMSP-E (NAD 83)         LAT = 32 047/62 '' N         LAT = 32 07/64/5 '' N         LAT = 32 07/64/5 '' N           N(Y) = 392680.4         E (X) = 661164.4'         LAT = 32 07/64/5 '' N         LONG = 103'56'47.21'' W           LAT = 32 04/44.30' N         LONG = 103'56'47.21'' W         LAT = 32 07/64/5 '' N         LONG = 103'56'47.21'' W           LAT = 32 04/44.30' N         LONG = 103 053 053'N         230'         230'         JAMES E. TOMPKINS 14729		NMSP-E (NAD 83)		
NORTH BRUSHY DRAW         NORTH BRUSHY DRAW         NMSP-E (NAD 27)         NMSP-E (NAD 27)           NMSP-E (NAD 83)         NMSP-E (NAD 83)         NMSP-E (NAD 83)         NMSP-E (NAD 83)           SW COR SEC 35         LCH = 32 047/52 '' N         SE COR SEC 35         LAT = 32 047/52 '' N           NMSP-E (NAD 83)         NMSP-E (NAD 83)         NMSP-E (NAD 83)         NMSP-E (NAD 83)           NMSP-E (NAD 83)         LAT = 32 047/62 '' N         LAT = 32 07/64/5 '' N         LAT = 32 07/64/5 '' N           N(Y) = 392680.4         E (X) = 661164.4'         LAT = 32 07/64/5 '' N         LONG = 103'56'47.21'' W           LAT = 32 04/44.30' N         LONG = 103'56'47.21'' W         LAT = 32 07/64/5 '' N         LONG = 103'56'47.21'' W           LAT = 32 04/44.30' N         LONG = 103 053 053'N         230'         230'         JAMES E. TOMPKINS 14729				Signature and Scal of Propesional Surveyor.
NORTH BRUSHY DRAW         NORTH BRUSHY DRAW         NMSP-E (NAD 27)         NMSP-E (NAD 27)           NMSP-E (NAD 83)         NMSP-E (NAD 83)         NMSP-E (NAD 83)         NMSP-E (NAD 83)           SW COR SEC 35         LCH = 32 CM4/5.5"         SE COR SEC 35           LCH = 32 CM4/5.5"         SE COR SEC 35           NMSP-E (NAD 83)         NMSP-E (NAD 83)           NMSP-E (NAD 83)         NMSP-E (NAD 83)           LCH = 32 CM4/5.5"         SE COR SEC 35           LCH = 32 CM4/4.42" M         SE COR SEC 35           LONG = 103 '556'47.21" W         LONG = 103 '56'47.21" W           LAT = 32 CM4/4.30" M         LONG = 103 '5	· .		l l	
NORTH BRUSHY DRAW FEDERAL 36 6H BHL MMSP-E (NAD 83) N (Y) = 392903.3' E (X) = 655903.3' LAT.= 32'0446.57' N LONG.= 103'57'128' W         NMSP-E (NAD 27) NMSP-E (NAD 83) LAT.= 32'0446.57' N LONG.= 103'57'128' W         NMSP-E (NAD 23) LAT.= 32'0446.57' N LONG.= 103'56'47.21' W         NMSP-E (NAD 83) N(Y) = 392683.4 E (X) = 665164.4' LAT.= 32'0444.20' N LONG.= 103'56'47.21' W         NMSP-E (NAD 83) LONG.= 103'56'47.21' W         NMSP-E (NAD 83) LONG.= 103'56'47.21' W           NMSP-E (NAD 83) N(Y) = 392683.4 E (X) = 655847.1' LAT.= 32'04'44.30' N LONG.= 103'56'47.21' W         LONG.= 103'56'47.21' W         LONG.= 103'56'47.21' W           LONG.= 103'57'48.02' W         LONG.= 103'56'47.21' W         LONG.= 103'56'47.21' W         LONG.= 103'56'47.21' W				
NORTH BRUSHY DRAW FEDERAL 36 6H BHL MMSP-E (NAD 83) N (Y) = 392903.3' E (X) = 655903.3' LAT.= 32'0446.57' N LONG.= 103'57'128' W         NMSP-E (NAD 27) NMSP-E (NAD 83) LAT.= 32'0446.57' N LONG.= 103'57'128' W         NMSP-E (NAD 23) LAT.= 32'0446.57' N LONG.= 103'56'47.21' W         NMSP-E (NAD 83) N(Y) = 392683.4 E (X) = 665164.4' LAT.= 32'0444.20' N LONG.= 103'56'47.21' W         NMSP-E (NAD 83) LONG.= 103'56'47.21' W         NMSP-E (NAD 83) LONG.= 103'56'47.21' W           NMSP-E (NAD 83) N(Y) = 392683.4 E (X) = 655847.1' LAT.= 32'04'44.30' N LONG.= 103'56'47.21' W         LONG.= 103'56'47.21' W         LONG.= 103'56'47.21' W           LONG.= 103'57'48.02' W         LONG.= 103'56'47.21' W         LONG.= 103'56'47.21' W         LONG.= 103'56'47.21' W	•	LONG.= 103*57*12.91*	w	
NUT - 32244         Set Constant           NUT - 32244         E (X) = 617767.5'           SW COR SEC 35         N (Y) = 32203.3'           Lat = 320446.57' N         Long = 103.9531035'W           NMSP-E (NAD 83)         NMSP-E (NAD 83)           Lat = 320446.57' N         Long = 103.9531035'W           Long = 103.9531035'W         Long = 103.9531035'W           N(Y) = 322683.4         E (X) = 661164.4'           Lat = 320444.30'N         Long = 103.9531035'W           Long = 103.9531031'W         230'				
In (1)         Status         In (1)         In (1)<				
In (1)         Status         In (1)         In (1)<				NËL / <i>16  </i>
SW COR SEC 35         LONG.= 103*57*12.91*W         E (X) = 661164.4'         LAT. = 32*04'44.28*N           NMSP-E (NAD 83)         NMSP-E (NAD 27)         LAT. = 32*04'44.28*N         LONG.= 103*56'47.21*W           N (Y) = 392683.4         N (Y) = 382#45.4'         LONG.= 103*56'47.21*W         Job Not.: WTC 50793           LAT. = 32*04'44.30*N         LAT. = 32*07#472*W         230'         JAMES E. TOMPKINS 14729				
SW COR SEC 35         LONG.= 103*57*12.91*W         E (X) = 661164.4'         LAT. = 32*04'44.28*N           NMSP-E (NAD 83)         NMSP-E (NAD 27)         LAT. = 32*04'44.28*N         LONG.= 103*56'47.21*W           N (Y) = 392683.4         N (Y) = 382#45.4'         LONG.= 103*56'47.21*W         Job Not.: WTC 50793           LAT. = 32*04'44.30*N         LAT. = 32*07#472*W         230'         JAMES E. TOMPKINS 14729				
SW COR SEC 35 NMSP-E (NAD 83)         NMSP-E (NAD 27) N (Y) = 392663.4         LAT. = 32*0444.28* N LONG.= 103*56'47.21* W           N (Y) = 392663.4         N(Y) = 392663.4         LAT. = 32*0444.28* N LONG.= 103*56'47.21* W         Job Not. WTC 50793           LAT. = 32*0444.30* N LONG.= 103*57'48.02* W         LONG.= 103*57'48.02* W         Job Not. WTC 50793				
NMSP-E (NAL) 83)         NMSP-E (NAL) 83)         LONG.= 103*56'47.21* W           N(Y) = 302863.4         N (Y) = 302863.4         LONG.= 103*56'47.21* W           E (X) = 655847.1'         E (X) = 655847.1'         Job Not.: WTC50793           LAT.= 32*04'44.30* N         LONG.= 103*56'47.21* W         Job Not.: WTC50793           LAT.= 32*07'48.02* W         LONG.= 103*551'43* W         230'	SW COR SEC 35	LUND- 100 07 12,91 W		TOFF THE ALL NEW
N (T) = 392003.4 E (X) = 655847.1' LAT. = 32'04'44.30' N LONG.= 103'57'49.02' W LONG.= 103:55749.02' W LONG.= 103:55749.02' W				Vilmes A Thulland
LAT.= 32*04'44.30* N LONG.= 103*57'49.02* W LONG.= 103.9531031'W 230'				
LONG.= 103:57/19.02 W LONG.= 103.5531031 W 230 JAMES E. TOMPKINS 14729			2210	Job No.: WTC50793
	LONG.= 103*57'49.02" W		1	JAMES E. TOMPKINS 14729
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Projection System: US State Plane 1983 Projection Group: New Mexico Etstam Zone Proyoction Datum: GRS90 Magnetic Declination: 7.33 Gird Convergence: 0.20152 E			- <u>E</u>					 	* <u> </u>	-		· .	<u>i</u> !			; ; <b>1</b> ,	-			· · · ·	-				+	، ب 				ł
S State Pla v Mexico E S80 7.33 20152 E		4						·~··			:		UDr Ca					- }									· · · · · ·	,	-	
Projection System: US State P Projection Group: New Mexico Projection Datum: GRS80 Magnetic Declination: 7.33 Gird Convergence: 0.20152 E		· · · ·							1 1 1 1 1 1		-	,	_	$\geq$	≫		-								! i.	 			1	
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State/Country: NN/ Eddy Country: USA API Number: 3001542283 Elevation (T0 MSL): 3014.00 th RKB: 18.00 th RKB: 18.00 th Date: Thursdey, Jury 23, 2015				4 · 4 - 4 ·			VS (F8)	ļļ	0.0	0.0	144.9	165.2	234.8	650.6	4903.9		1 2 2		TVD (F0)			5913.0 6833.0			000		1 			Drilling
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,		е (с. т. . с. с.		+ +		CRITIC	<u>۶</u> ۳	GridX, 3	0.0 MD ,10.00*		10212.4 Azm	10234.1 79.00MD .1	168.7 10304.9 79.73° Azm	10477.0	F	1 <u>1</u>	<u>,</u>	TARGET DATA	Easting (Ft)	658851.2 658851.2	58851.2 58851.2	158851.2 158851.2	58851.2 58851.2	559231.2 559230.6	658963.3 658963.3 659234.5	659233.5 658932.1	4 	1 ang An 14 An 14 An 1		
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