

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT
NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 23 2014

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR RE-ENTER

1. Operator Name and Address BOPCO, L.P. P.O. Box 2760 Midland, TX		2. OGRID Number 260737
3. Property Code 40065 31321B		4. Property Name Poker Lake Unit CVX JV BS
5. Well No. 053H		6. APL Number 30-015-72456

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
E	2	24 S	30 E		2500	NORTH	330	WEST	EDDY

*** Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
H	2	24 S	30 E		2020	NORTH	330	EAST	EDDY

9. Pool Information

WC 0156-06 S233036D1 Wildcat (BONE SPRING)	Pool Name B.S.	Pool Code 96403
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Additional Well Information

11. Work Type New Well	12. Well Type Oil	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3449
16. Multiple N	17. Proposed Depth 15,144'	18. Formation 2 nd Bone Spring Shale	19. Contractor	20. Spud Date 8/01/2014
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17-1/2"	13-3/8"	48	780'	730	Surface
Int.	12-1/4"	9-5/8"	40	4,080'	990	Surface
Prod.	7-7/8"	5-1/2"	17	15,144'	2070	Surface

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5,000	2,500	Hydrill
Double Ram	5,000	5,000	Shaffer

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

I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐ if applicable.

Signature: *Whitney McKee*

Printed name: Whitney McKee

Title: Engineering Assistant

E-mail Address: wbmckee@basspet.com

Date: 06/17/2014

Phone: 432-683-2277

OIL CONSERVATION DIVISION

Approved By:

T. C. Shepard

Title:

"Geologist"

Approved Date: 6-23-2014

Expiration Date: 6-23-2016

Conditions of Approval Attached

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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Submit one copy to appropriate
NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 23 2014

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

RECEIVED

API Number 30-015-42456	Pool Code 96403	Pool Name WC; 015 6-06	Well Number 053H
Property Code 40065	Property Name POKER LAKE UNIT CVX JV BS	Well Number 053H	Elevation 3449'
OGRID No. 260737	Operator Name BOPCO, L.P.		

Surface Location

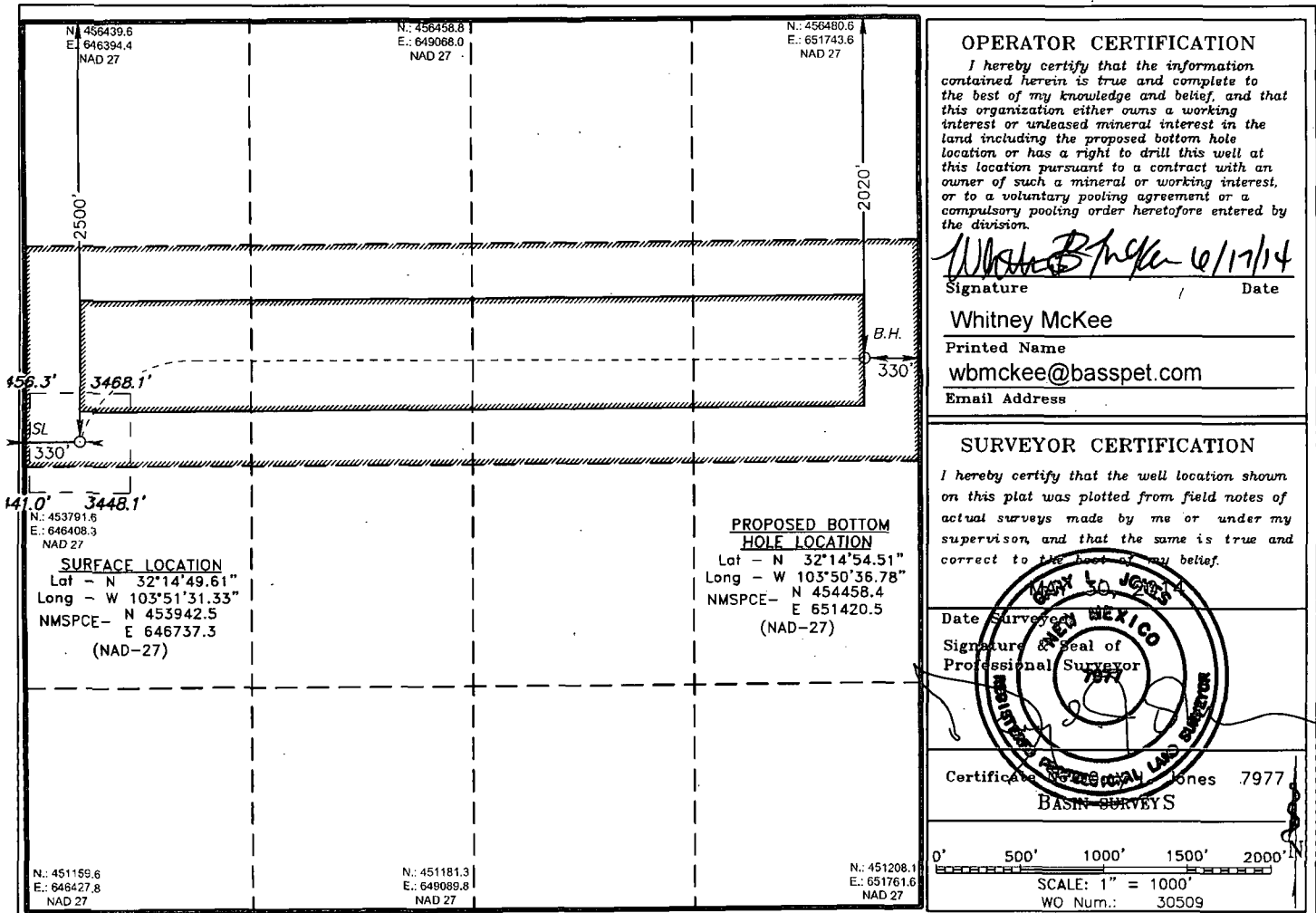
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	2	24 S	30 E		2500	NORTH	330	WEST	EDDY

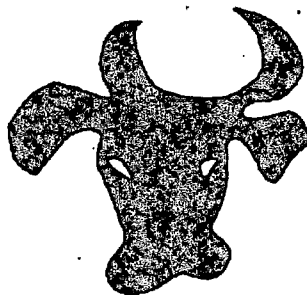
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	2	24 S	30 E		2020	NORTH	330	EAST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
-------------------------------	-----------------	--------------------	-----------

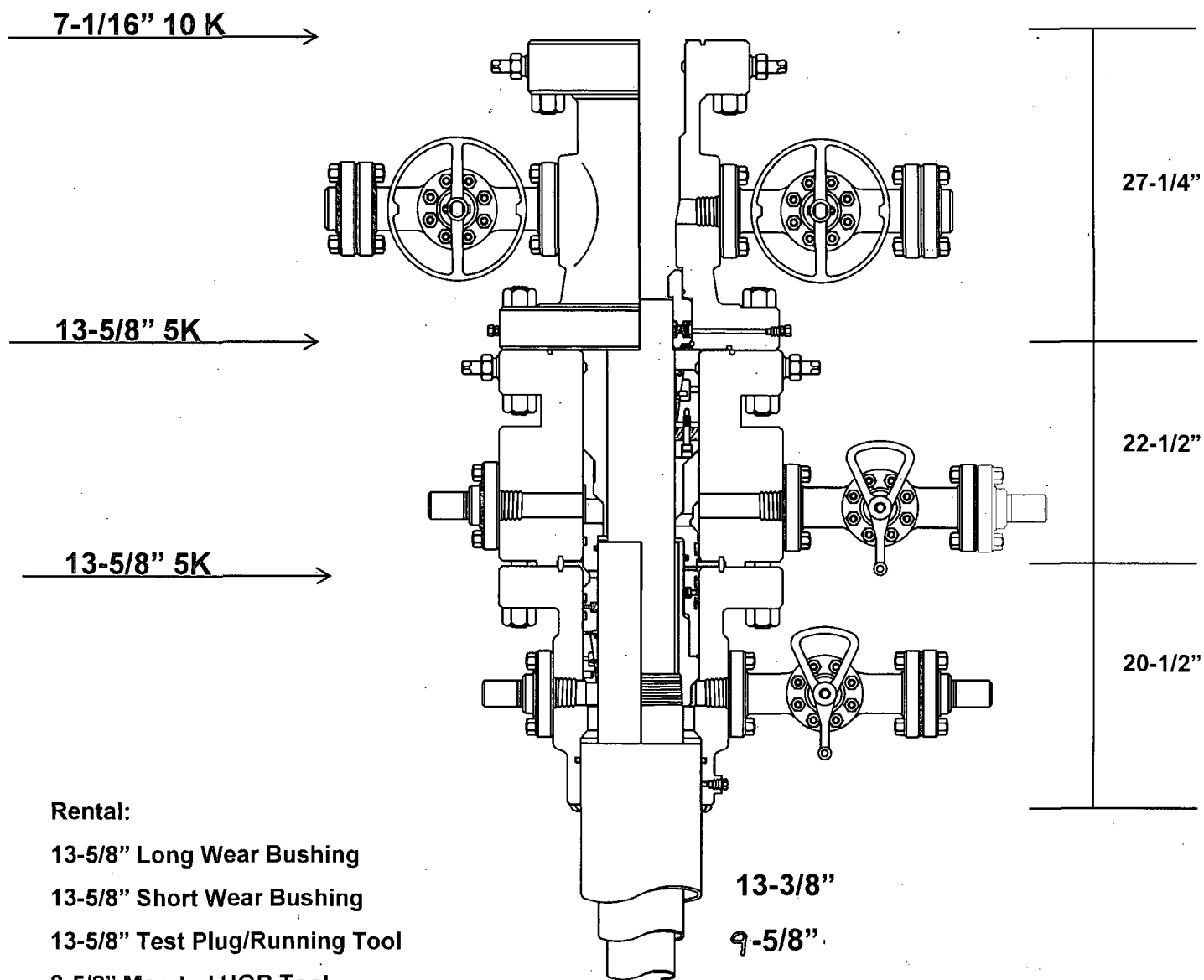
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





CUSTOMER: BOPCO

Diagram "Z"



Rental:

13-5/8" Long Wear Bushing

13-5/8" Short Wear Bushing

13-5/8" Test Plug/Running Tool

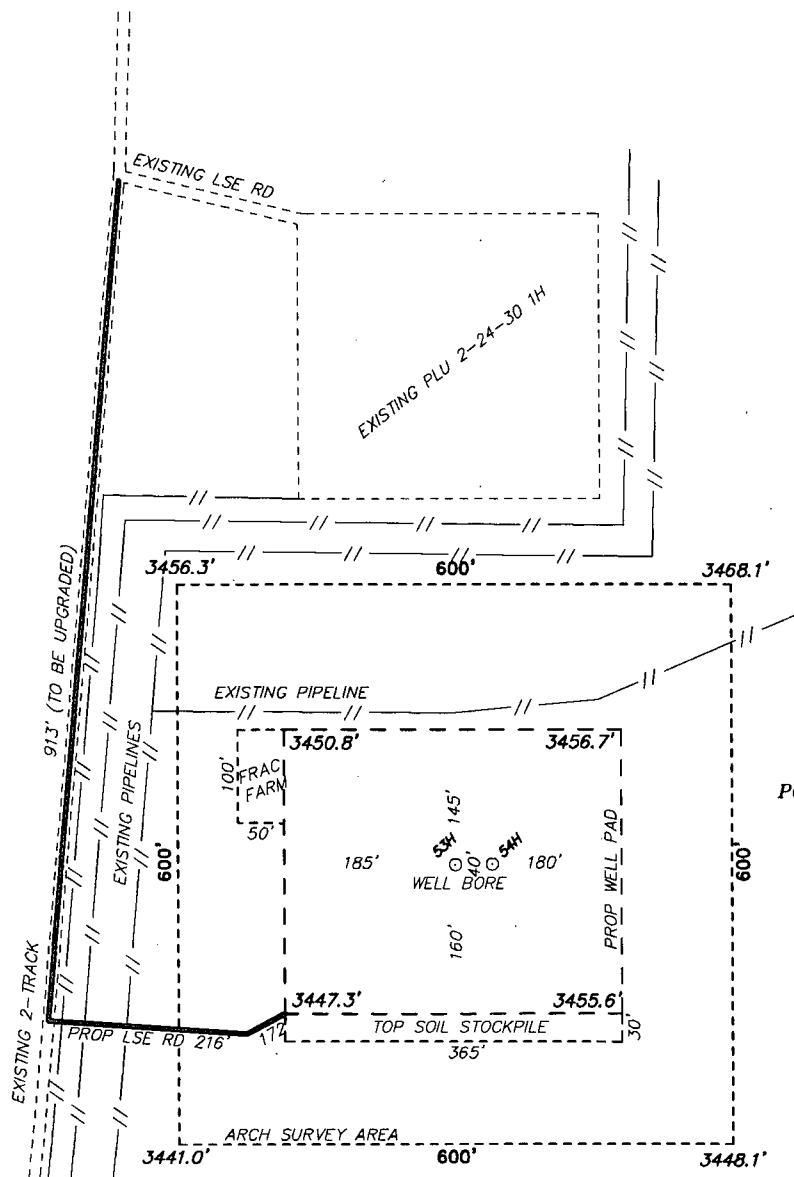
8-5/8" Mandrel HGR Tool

Packoff Support Bushing Running Tool

Jetting/Wash Tool

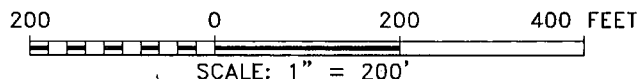


SECTION 2, TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



BOPCO, L.P.
POKER LAKE UNIT CVX JV BS 053H
ELEV. - 3449'
Lat - N 32°14'49.61"
Long - W 103°51'31.33"
NMSPCE- N 453942.5
E 646737.3
(NAD-27)

MALAGA, NM IS ±12 MILES TO THE WEST OF LOCATION.



Directions to Location:

FROM THE JUNCTION OF HWY 128 AND MOBLEY RANCH, GO SOUTH ON MOBLEY RANCH 0.6 MILES; CONTINUE SOUTH ON CALICHE ROAD FOR 4.7 MILES TO A "Y", CONTINUE SOUTH 1.3 MILES TO PROPOSED LEASE ROAD.

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P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

BOPCO, L.P.

REF: POKER LAKE UNIT CVX JV BS 053H / WELL PAD TOPO

THE POKER LAKE UNIT CVX JV BS 053H LOCATED 2500' FROM
THE NORTH LINE AND 330' FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 24 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

W.O. Number: 30509

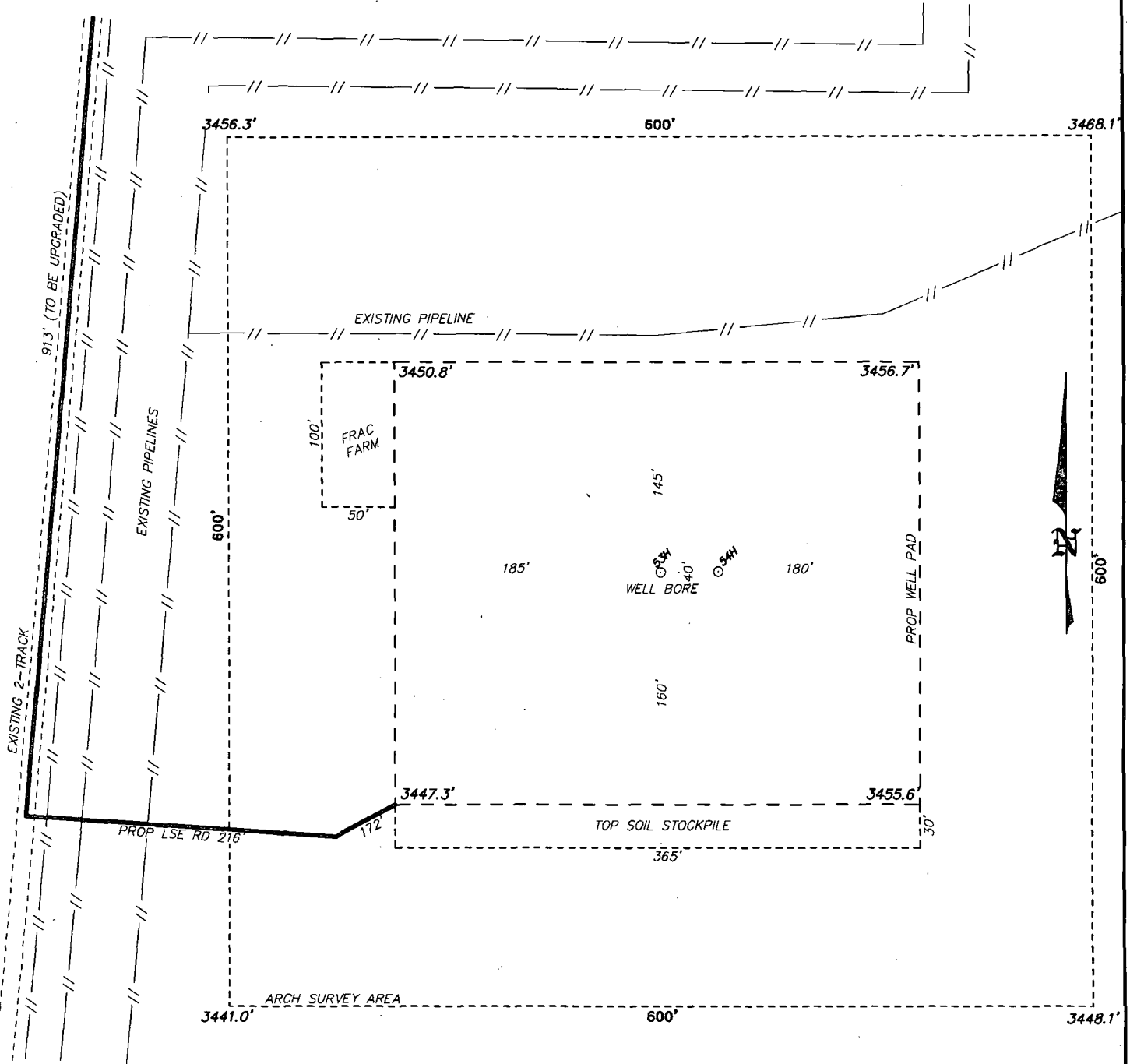
Drawn By: K. NORRIS

Date: 06-03-2014,

Survey Date: 05-09-2014

Sheet 1 of 1 Sheets

SECTION 2, TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



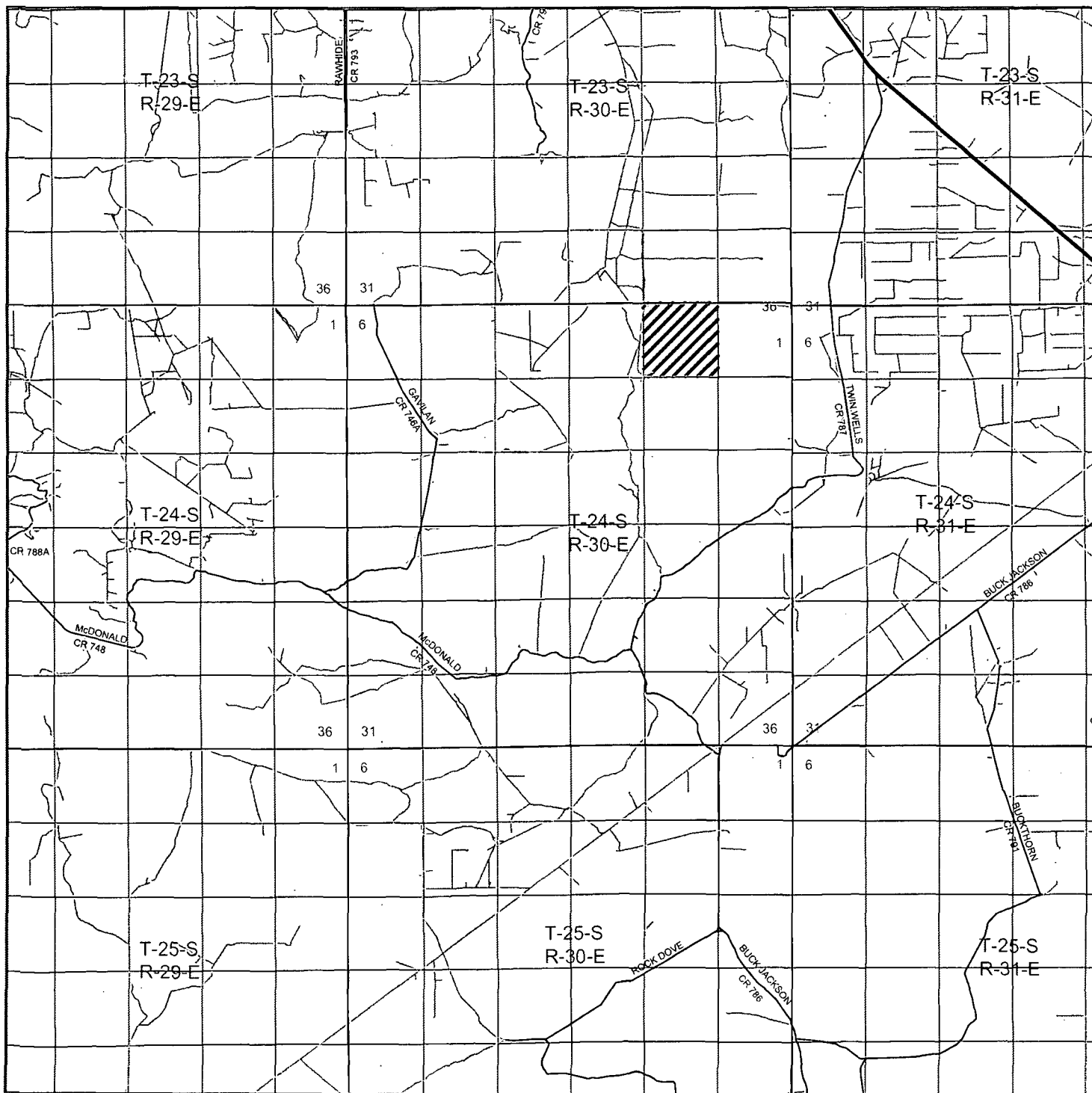
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THE NORTH LINE AND 330' FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 24 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.



POKER LAKE UNIT CVX JV BS 053H

Located 2500' FNL and 330' FWL

Section 2, Township 24 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.

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0 1 MI 2 MI 3 MI 4 MI

SCALE: 1" = 2 MILES

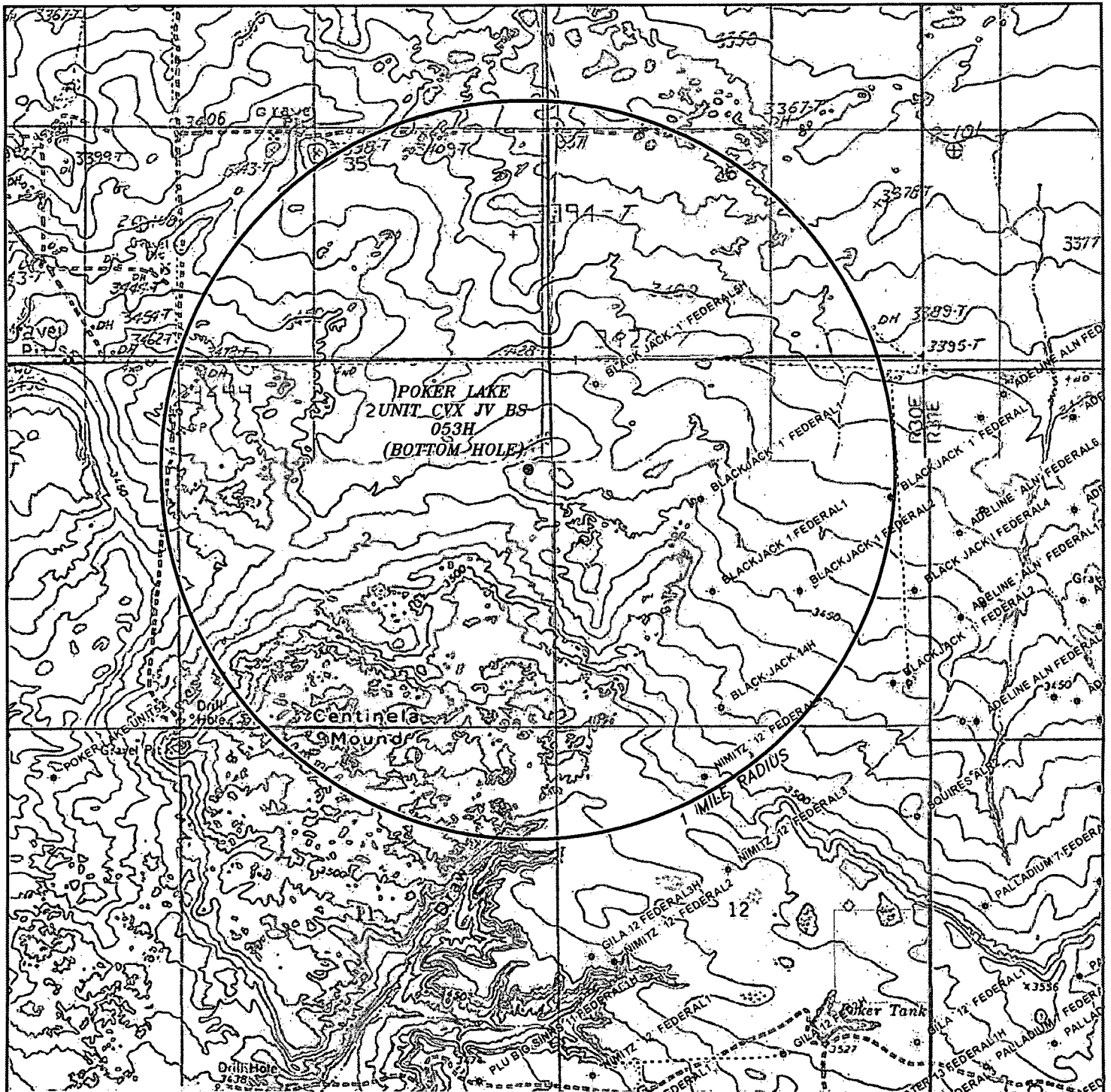
W.O. Number: KAN 30509

Survey Date: 05-09-2014

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



BOPCO, L.P.



POKER LAKE UNIT CVX JV BS 053H (BOTTOM HOLE)

Located 2020' FNL and 330' FEL

Section 2, Township 24 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.

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0' 1000' 2000' 3000' 4000'
SCALE: 1" = 2000'

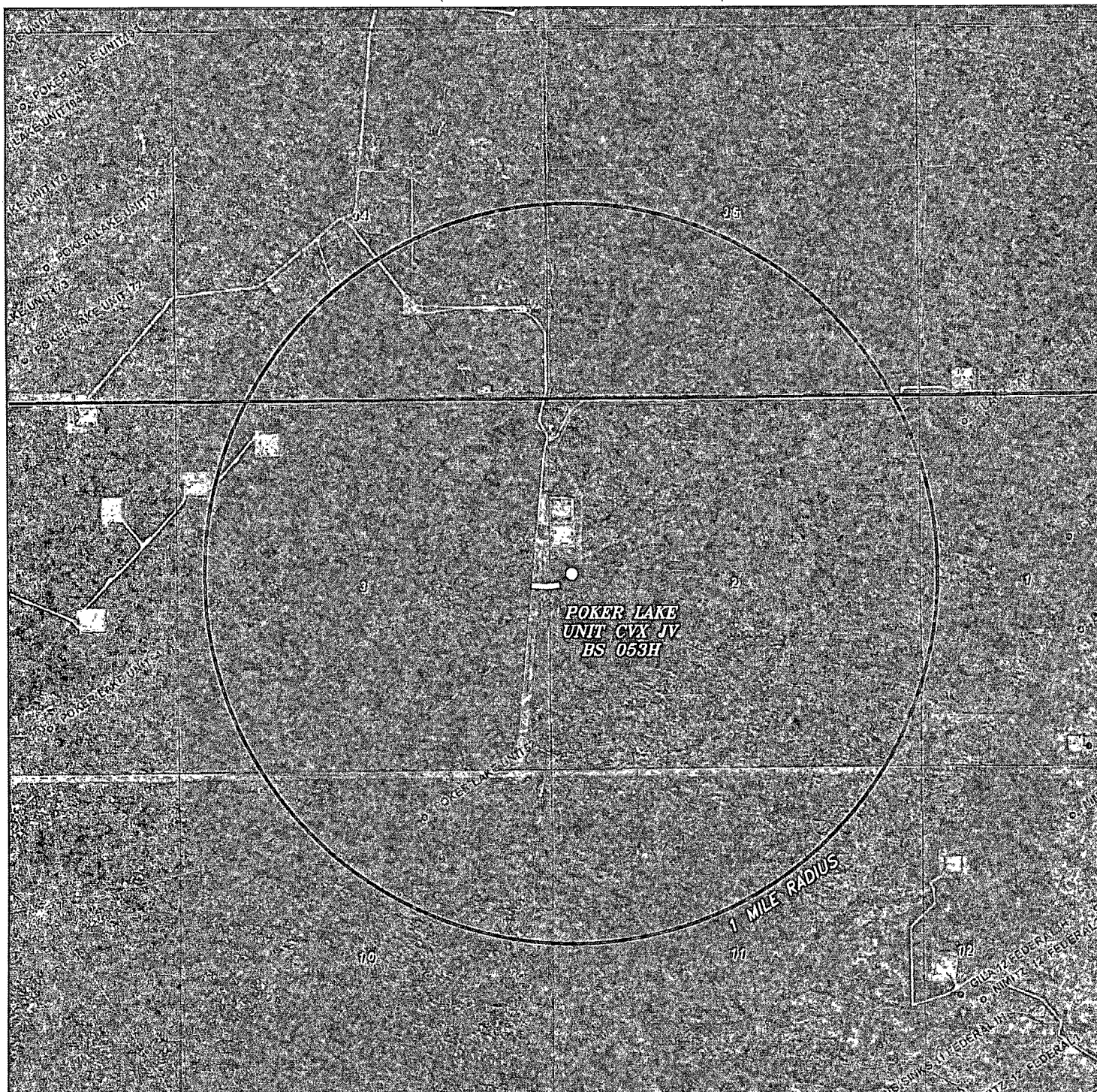
W.O. Number: KAN 30509

Survey Date: 05-09-2014

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



BOPCO, L.P.



POKER LAKE UNIT CVX JV BS 053H
 Located 2500' FNL and 330' FWL
 Section 2, Township 24 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.

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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

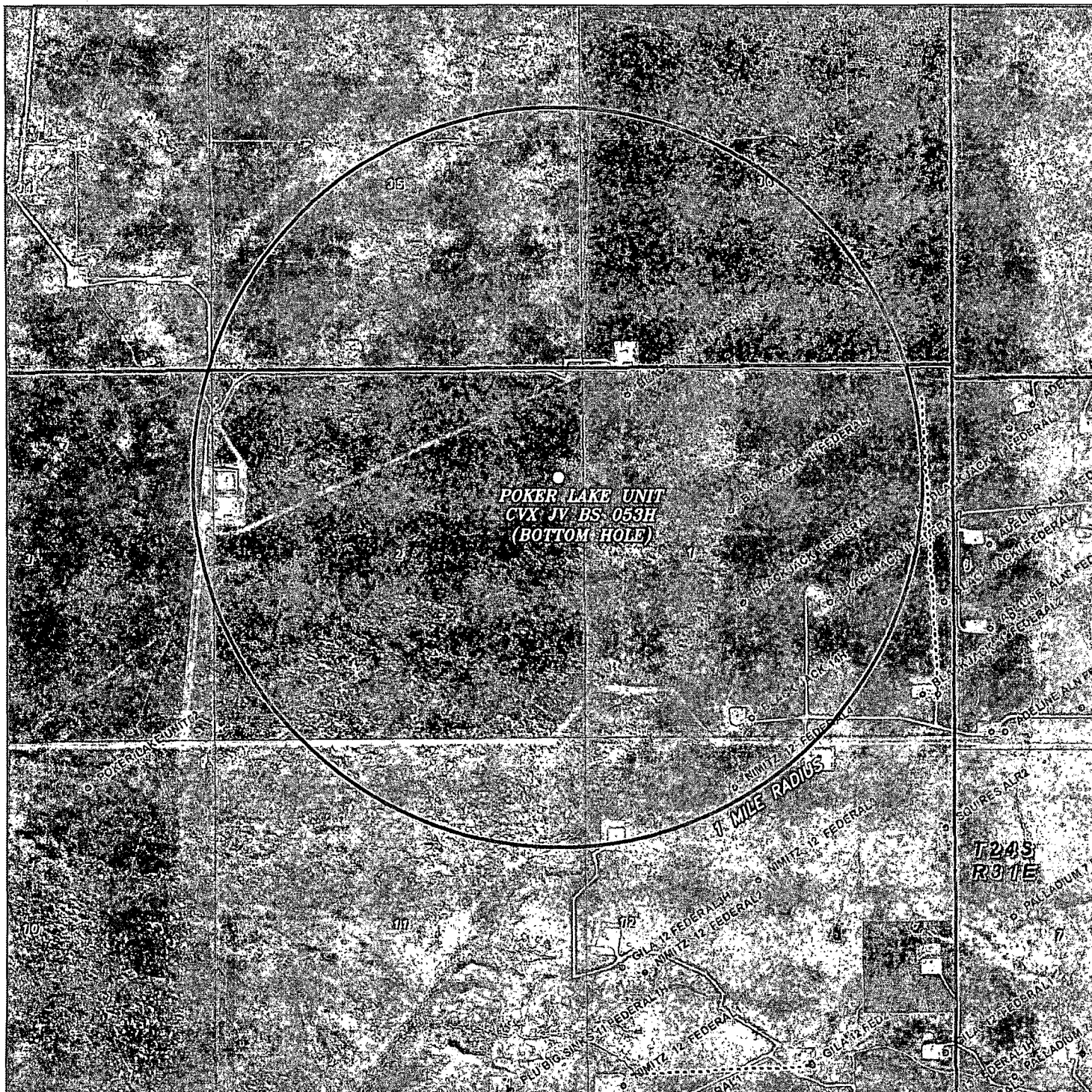
W.O. Number: KAN 30509

Survey Date: 05-09-2014

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND

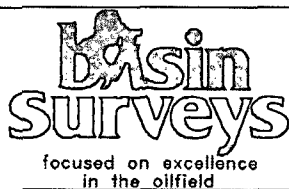


BOPCO, L.P.



POKER LAKE UNIT CVX JV BS 053H (BOTTOM HOLE)

Located 2020' FNL and 330' FEL
 Section 2, Township 24 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.



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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: KAN 30509

Survey Date: 05-09-2014

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



BOPCO, L.P.

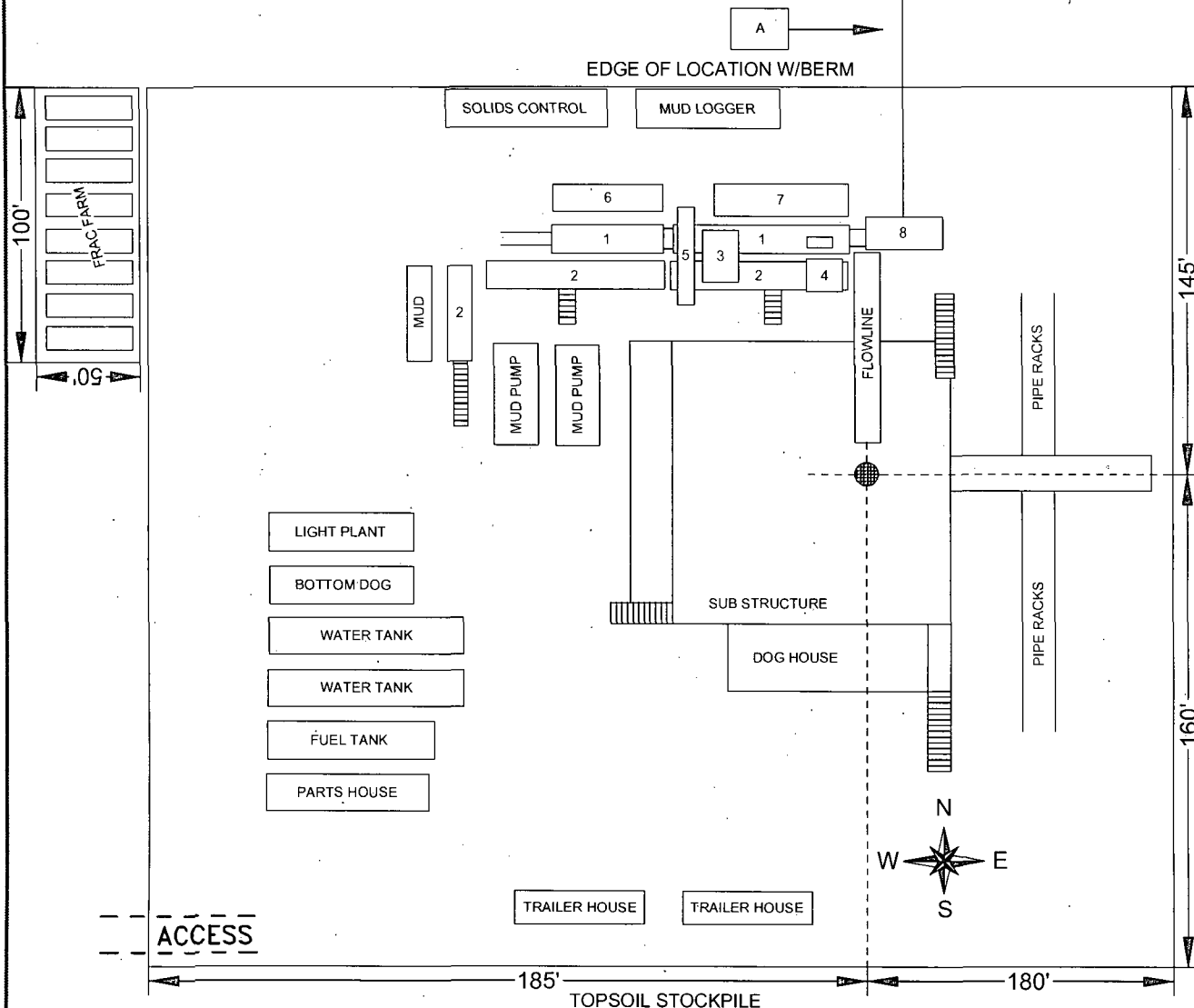
EXHIBIT "D"

RIG LAYOUT SCHEMATIC
INCLUSIVE OF CLOSED-LOOP DESIGN PLAN

SOLIDS CONTROL EQUIPMENT LEGEND

- | | |
|-----------------------------------|--------------------|
| 1) ROLL OFF BIN | 5) CENTRIFUGE |
| 2) STEEL TANK | 6) DEWATERING UNIT |
| 3) MUD CLEANER | 7) CATCH TANK |
| 4) SHAKER | 8) CHOKE MANIFOLD |
| A) BLEED LINE FROM CHOKE MANIFOLD | |

FLARE PIT 150' AWAY
FROM LOCATION IN H2S
AREA, 100' AWAY FROM
LOCATION OUTSIDE H2S



POKER LAKE UNIT CVX JV BS 053H

Located 2500' FNL and 330' FWL

Section 2, Township 24 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.

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SCALE: NONE

W.O. Number: JMS 30509

Survey Date: 06-03-2014

BOPCO, L.P.



Project: Eddy County, NM (NAD27 NME)
Site: Poker Lake Unit CVX JV BS
Well: #053H
Wellbore: WB1
Design: Plan #2 05-15-14
Rig: Latshaw 14

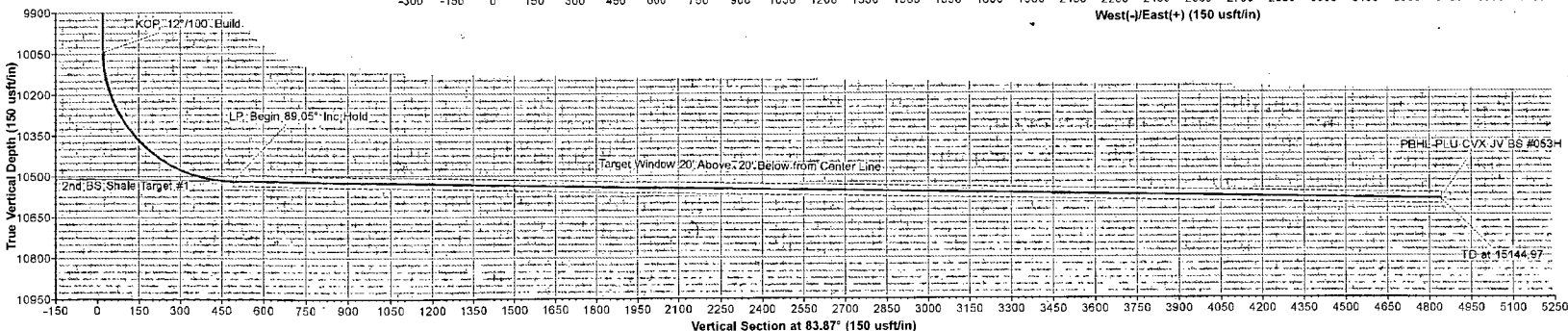
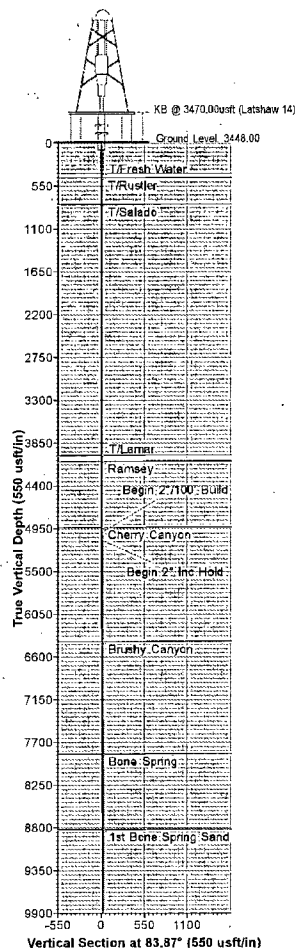


PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: -0.25°
Magnetic North: 7.11°

Magnetic Field
Strength: 48307.4nT
Dip Angle: 60.09°
Date: 05/15/2014
Model: IGRF2010_14



WELL DETAILS											
+N-S		+E/W		Northing	Ground Level:		3448.00	Latitude	Longitude		
0.00		0.00		453941.50	Easting		046607.50	32° 14' 49.60420 N	103° 51' 32.84626 W		

SECTION DETAILS											
Sec	MD	Inc	Az	TVD	+N-S	+E-W	Dleg	IFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00		Begin 2°/100' Build
3	5100.00	2.00	0.00	5098.98	1.75	0.00	2.00	0.00	0.00	0.19	Begin 2° Inc Hold
4	10047.82	2.00	0.00	10044.78	174.42	0.00	0.00	0.00	0.00	18.63	KOP, 12°/100' Build
5	10788.76	89.05	86.12	10520.77	222.44	467.37	12.00	86.16	486.46		LP, Begin 89.05° Inc Hold
6	15144.97	89.05	86.12	10593.00	516.50	4813.00	0.00	0.00	4846.68	PBHL-PLU CVX JV BS #053H	TD at 15144.97

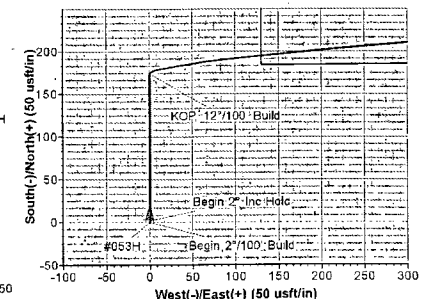
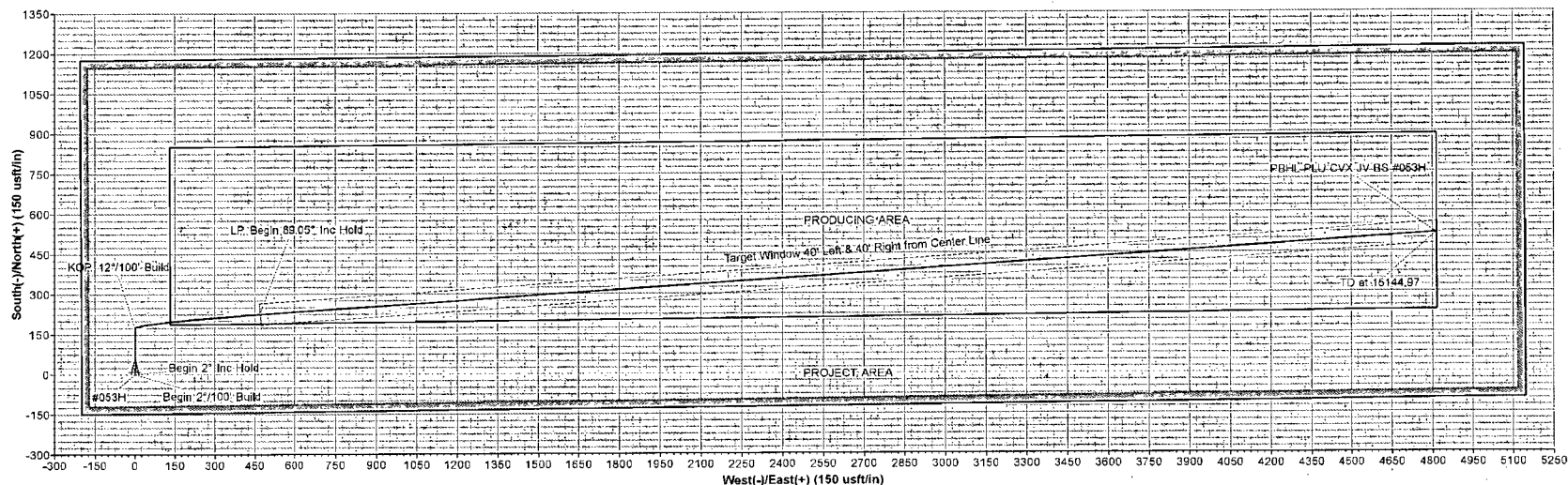
DESIGN TARGET DETAILS											
Name	TVD		+N-S	+E/W	Northing	Easting	Latitude	Longitude	Shape		
PBHL-PLU CVX JV BS #053H	10593.00		516.50	4813.00	454458.40	851420.50	32° 14' 54.50584 N	103° 50' 36.77613 W	Rectangle (Sides: L40.00 W80.00)		
- plan hits target center											

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Well #053H, Grid North
Latitude: 32° 14' 49.60420 N
Longitude: 103° 51' 32.84626 W
Grid East: 648607.50
Grid North: 453941.50
Scale Factor: 1.000
Geomagnetic Model: IGRF2010_14
Sample Date: 15-May-14
Magnetic Declination: 7.36°
Dip Angle from Horizontal: 60.09°
Magnetic Field Strength: 48307

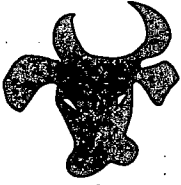
To convert a Magnetic Direction to a Grid Direction, Add 7.11°
To convert a Magnetic Direction to a True Direction, Add 7.36° East
To convert a True Direction to a Grid Direction, Subtract 0.25°

FORMATION TOP DETAILS				
TVDPath	MCPPath	Formation	DipAngle	DipDir
406.00	409.00	T/Fresh Water	-0.20	83.87
457.00	457.00	T/Rusler	-0.20	83.87
759.00	799.00	T/Salado	-0.20	83.87
4021.00	4021.00	T/Lamar	-0.20	83.87
4097.00	4097.00	Ramsey	-0.20	83.87
4947.00	4947.00	Cherry Canyon	-0.20	83.87
6414.98	6415.80	Brushy Canyon	-0.20	83.87
7862.96	7864.67	Bone Spring	-0.20	83.87
8633.95	8635.25	1st Bone Spring Sand	-0.20	83.87

LEGEND
Plan #2 05-15-14



Created By: Julio Peña Date: 12:06, May 15 2014



BOPCO, L P

Eddy County, NM (NAD27 NME)

Poker Lake Unit CVX JV BS

#053H

WB1

Plan: Plan #2 05-15-14

Standard Planning Report

15 May, 2014





Phoenix Technology Services

Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #053H
Company:	BOPCO, L P	TVD Reference:	KB @ 3470.00usft (Latshaw 14)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3470.00usft (Latshaw 14)
Site:	Poker Lake Unit CVX JV BS	North Reference:	Grid
Well:	#053H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2 05-15-14		

Project	Eddy County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Poker Lake Unit CVX JV BS		
Site Position:		Northing:	424,489.10 usft
From:	Map	Easting:	675,156.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 56.77628 N
		Longitude:	103° 46' 2.23055 W
		Grid Convergence:	0.30 °

Well	#053H		
Well Position	+N/-S	29,452.40 usft	Northing:
	+E/-W	-28,548.90 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			3,448.00 usft

Wellbore	WB1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010_14	05/15/14	7.36
			Dip Angle
			60.09
			Field Strength
			48,307

Design	Plan #2 05-15-14		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			83.87

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,100.00	2.00	0.00	5,099.98	1.75	0.00	2.00	2.00	0.00	0.00	
10,047.82	2.00	0.00	10,044.78	174.42	0.00	0.00	0.00	0.00	0.00	
10,788.78	89.05	86.12	10,520.78	222.44	467.37	12.00	11.75	11.62	86.16	
15,144.97	89.05	86.12	10,593.00	516.90	4,813.00	0.00	0.00	0.00	0.00	PBHL-PLU CVX JV B



Phoenix Technology Services

Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #053H
Company:	BOPCO, L P	TVD Reference:	KB @ 3470.00usft (Latshaw 14)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3470.00usft (Latshaw 14)
Site:	Poker Lake Unit CVX JV BS	North Reference:	Grid
Well:	#053H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2 05-15-14		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
T/Fresh Water										
457.00	0.00	0.00	457.00	0.00	0.00	0.00	0.00	0.00	0.00	
T/Rustler										
799.00	0.00	0.00	799.00	0.00	0.00	0.00	0.00	0.00	0.00	
T/Salado										
4,021.00	0.00	0.00	4,021.00	0.00	0.00	0.00	0.00	0.00	0.00	
T/Lamar										
4,097.00	0.00	0.00	4,097.00	0.00	0.00	0.00	0.00	0.00	0.00	
Ramsey										
4,947.00	0.00	0.00	4,947.00	0.00	0.00	0.00	0.00	0.00	0.00	
Cherry Canyon										
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
Begin 2°/100' Build										
5,100.00	2.00	0.00	5,099.98	1.75	0.00	0.19	2.00	2.00	0.00	
Begin 2° Inc Hold										
5,200.00	2.00	0.00	5,199.92	5.24	0.00	0.56	0.00	0.00	0.00	
5,300.00	2.00	0.00	5,299.86	8.73	0.00	0.93	0.00	0.00	0.00	
5,400.00	2.00	0.00	5,399.80	12.22	0.00	1.30	0.00	0.00	0.00	
5,500.00	2.00	0.00	5,499.74	15.70	0.00	1.68	0.00	0.00	0.00	
5,600.00	2.00	0.00	5,599.68	19.19	0.00	2.05	0.00	0.00	0.00	
5,700.00	2.00	0.00	5,699.61	22.68	0.00	2.42	0.00	0.00	0.00	
5,800.00	2.00	0.00	5,799.55	26.17	0.00	2.80	0.00	0.00	0.00	
5,900.00	2.00	0.00	5,899.49	29.66	0.00	3.17	0.00	0.00	0.00	
6,000.00	2.00	0.00	5,999.43	33.15	0.00	3.54	0.00	0.00	0.00	
6,100.00	2.00	0.00	6,099.37	36.64	0.00	3.91	0.00	0.00	0.00	
6,200.00	2.00	0.00	6,199.31	40.13	0.00	4.29	0.00	0.00	0.00	
6,300.00	2.00	0.00	6,299.25	43.62	0.00	4.66	0.00	0.00	0.00	
6,400.00	2.00	0.00	6,399.19	47.11	0.00	5.03	0.00	0.00	0.00	
6,415.80	2.00	0.00	6,414.98	47.67	0.00	5.09	0.00	0.00	0.00	
Brushy Canyon										
6,500.00	2.00	0.00	6,499.13	50.60	0.00	5.40	0.00	0.00	0.00	
6,600.00	2.00	0.00	6,599.07	54.09	0.00	5.78	0.00	0.00	0.00	
6,700.00	2.00	0.00	6,699.01	57.58	0.00	6.15	0.00	0.00	0.00	
6,800.00	2.00	0.00	6,798.94	61.07	0.00	6.52	0.00	0.00	0.00	
6,900.00	2.00	0.00	6,898.88	64.56	0.00	6.89	0.00	0.00	0.00	
7,000.00	2.00	0.00	6,998.82	68.05	0.00	7.27	0.00	0.00	0.00	
7,100.00	2.00	0.00	7,098.76	71.54	0.00	7.64	0.00	0.00	0.00	
7,200.00	2.00	0.00	7,198.70	75.03	0.00	8.01	0.00	0.00	0.00	
7,300.00	2.00	0.00	7,298.64	78.52	0.00	8.39	0.00	0.00	0.00	
7,400.00	2.00	0.00	7,398.58	82.01	0.00	8.76	0.00	0.00	0.00	
7,500.00	2.00	0.00	7,498.52	85.50	0.00	9.13	0.00	0.00	0.00	
7,600.00	2.00	0.00	7,598.46	88.99	0.00	9.50	0.00	0.00	0.00	
7,700.00	2.00	0.00	7,698.40	92.48	0.00	9.88	0.00	0.00	0.00	
7,800.00	2.00	0.00	7,798.34	95.97	0.00	10.25	0.00	0.00	0.00	
7,864.67	2.00	0.00	7,862.96	98.23	0.00	10.49	0.00	0.00	0.00	
Bone Spring										
7,900.00	2.00	0.00	7,898.27	99.46	0.00	10.62	0.00	0.00	0.00	
8,000.00	2.00	0.00	7,998.21	102.95	0.00	10.99	0.00	0.00	0.00	
8,100.00	2.00	0.00	8,098.15	106.44	0.00	11.37	0.00	0.00	0.00	
8,200.00	2.00	0.00	8,198.09	109.93	0.00	11.74	0.00	0.00	0.00	
8,300.00	2.00	0.00	8,298.03	113.42	0.00	12.11	0.00	0.00	0.00	



Phoenix Technology Services
Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #053H
Company:	BOPCO, LP	TVD Reference:	KB @ 3470.00usft (Latshaw 14)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3470.00usft (Latshaw 14)
Site:	Poker Lake Unit CVX JV BS	North Reference:	Grid
Well:	#053H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2 05-15-14		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,400.00	2.00	0.00	8,397.97	116.91	0.00	12.48	0.00	0.00	0.00
8,500.00	2.00	0.00	8,497.91	120.40	0.00	12.86	0.00	0.00	0.00
8,600.00	2.00	0.00	8,597.85	123.89	0.00	13.23	0.00	0.00	0.00
8,700.00	2.00	0.00	8,697.79	127.38	0.00	13.60	0.00	0.00	0.00
8,800.00	2.00	0.00	8,797.73	130.87	0.00	13.97	0.00	0.00	0.00
8,836.25	2.00	0.00	8,833.95	132.14	0.00	14.11	0.00	0.00	0.00
1st Bone Spring Sand									
8,900.00	2.00	0.00	8,897.67	134.36	0.00	14.35	0.00	0.00	0.00
9,000.00	2.00	0.00	8,997.60	137.85	0.00	14.72	0.00	0.00	0.00
9,100.00	2.00	0.00	9,097.54	141.34	0.00	15.09	0.00	0.00	0.00
9,200.00	2.00	0.00	9,197.48	144.83	0.00	15.47	0.00	0.00	0.00
9,300.00	2.00	0.00	9,297.42	148.32	0.00	15.84	0.00	0.00	0.00
9,400.00	2.00	0.00	9,397.36	151.81	0.00	16.21	0.00	0.00	0.00
9,500.00	2.00	0.00	9,497.30	155.30	0.00	16.58	0.00	0.00	0.00
9,600.00	2.00	0.00	9,597.24	158.79	0.00	16.96	0.00	0.00	0.00
9,700.00	2.00	0.00	9,697.18	162.28	0.00	17.33	0.00	0.00	0.00
9,800.00	2.00	0.00	9,797.12	165.77	0.00	17.70	0.00	0.00	0.00
9,900.00	2.00	0.00	9,897.06	169.26	0.00	18.07	0.00	0.00	0.00
10,000.00	2.00	0.00	9,996.99	172.75	0.00	18.45	0.00	0.00	0.00
10,047.82	2.00	0.00	10,044.79	174.42	0.00	18.63	0.00	0.00	0.00
KOP, 12°/100' Build									
10,100.00	6.70	68.90	10,096.82	176.43	2.84	21.67	12.00	9.01	132.04
10,200.00	18.50	80.18	10,194.25	181.25	23.99	43.21	12.00	11.80	11.28
10,300.00	30.46	82.76	10,285.10	187.17	64.92	84.53	12.00	11.95	2.58
10,400.00	42.43	83.97	10,365.40	193.94	123.83	143.83	12.00	11.98	1.21
10,500.00	54.42	84.73	10,431.64	201.24	198.14	218.50	12.00	11.99	0.76
10,600.00	66.41	85.28	10,480.92	208.77	284.62	305.28	12.00	11.99	0.56
10,700.00	78.40	85.75	10,511.09	216.20	379.48	400.39	12.00	11.99	0.46
10,788.78	89.05	86.12	10,520.78	222.44	467.38	488.46	12.00	11.99	0.42
LP, Begin 89.05° Inc Hold									
10,800.00	89.05	86.12	10,520.96	223.20	478.57	499.67	0.00	0.00	0.00
10,900.00	89.05	86.12	10,522.62	229.96	578.33	599.58	0.00	0.00	0.00
11,000.00	89.05	86.12	10,524.28	236.72	678.09	699.49	0.00	0.00	0.00
11,100.00	89.05	86.12	10,525.94	243.48	777.84	799.39	0.00	0.00	0.00
11,200.00	89.05	86.12	10,527.59	250.24	877.60	899.30	0.00	0.00	0.00
11,300.00	89.05	86.12	10,529.25	257.00	977.36	999.21	0.00	0.00	0.00
11,400.00	89.05	86.12	10,530.91	263.76	1,077.12	1,099.12	0.00	0.00	0.00
11,500.00	89.05	86.12	10,532.57	270.52	1,176.87	1,199.03	0.00	0.00	0.00
11,600.00	89.05	86.12	10,534.23	277.28	1,276.63	1,298.94	0.00	0.00	0.00
11,700.00	89.05	86.12	10,535.88	284.04	1,376.39	1,398.85	0.00	0.00	0.00
11,800.00	89.05	86.12	10,537.54	290.80	1,476.15	1,498.76	0.00	0.00	0.00
11,900.00	89.05	86.12	10,539.20	297.56	1,575.90	1,598.67	0.00	0.00	0.00
12,000.00	89.05	86.12	10,540.86	304.31	1,675.66	1,698.57	0.00	0.00	0.00
12,100.00	89.05	86.12	10,542.52	311.07	1,775.42	1,798.48	0.00	0.00	0.00
12,200.00	89.05	86.12	10,544.17	317.83	1,875.18	1,898.39	0.00	0.00	0.00
12,300.00	89.05	86.12	10,545.83	324.59	1,974.93	1,998.30	0.00	0.00	0.00
12,400.00	89.05	86.12	10,547.49	331.35	2,074.69	2,098.21	0.00	0.00	0.00
12,500.00	89.05	86.12	10,549.15	338.11	2,174.45	2,198.12	0.00	0.00	0.00
12,600.00	89.05	86.12	10,550.81	344.87	2,274.21	2,298.03	0.00	0.00	0.00
12,700.00	89.05	86.12	10,552.46	351.63	2,373.96	2,397.94	0.00	0.00	0.00
12,800.00	89.05	86.12	10,554.12	358.39	2,473.72	2,497.85	0.00	0.00	0.00
12,900.00	89.05	86.12	10,555.78	365.15	2,573.48	2,597.76	0.00	0.00	0.00
13,000.00	89.05	86.12	10,557.44	371.91	2,673.24	2,697.66	0.00	0.00	0.00



Phoenix Technology Services

Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #053H
Company:	BOPCO, L P	TVD Reference:	KB @ 3470.00usft (Latshaw 14)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3470.00usft (Latshaw 14)
Site:	Poker Lake Unit CVX JV BS	North Reference:	Grid
Well:	#053H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2 05-15-14		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,100.00	89.05	86.12	10,559.09	378.67	2,772.99	2,797.57	0.00	0.00	0.00
13,200.00	89.05	86.12	10,560.75	385.43	2,872.75	2,897.48	0.00	0.00	0.00
13,300.00	89.05	86.12	10,562.41	392.19	2,972.51	2,997.39	0.00	0.00	0.00
13,400.00	89.05	86.12	10,564.07	398.95	3,072.27	3,097.30	0.00	0.00	0.00
13,500.00	89.05	86.12	10,565.73	405.71	3,172.02	3,197.21	0.00	0.00	0.00
13,600.00	89.05	86.12	10,567.38	412.47	3,271.78	3,297.12	0.00	0.00	0.00
13,700.00	89.05	86.12	10,569.04	419.23	3,371.54	3,397.03	0.00	0.00	0.00
13,800.00	89.05	86.12	10,570.70	425.99	3,471.30	3,496.94	0.00	0.00	0.00
13,900.00	89.05	86.12	10,572.36	432.75	3,571.05	3,596.84	0.00	0.00	0.00
14,000.00	89.05	86.12	10,574.02	439.51	3,670.81	3,696.75	0.00	0.00	0.00
14,100.00	89.05	86.12	10,575.67	446.27	3,770.57	3,796.66	0.00	0.00	0.00
14,200.00	89.05	86.12	10,577.33	453.02	3,870.33	3,896.57	0.00	0.00	0.00
14,300.00	89.05	86.12	10,578.99	459.78	3,970.08	3,996.48	0.00	0.00	0.00
14,400.00	89.05	86.12	10,580.65	466.54	4,069.84	4,096.39	0.00	0.00	0.00
14,500.00	89.05	86.12	10,582.31	473.30	4,169.60	4,196.30	0.00	0.00	0.00
14,600.00	89.05	86.12	10,583.96	480.06	4,269.36	4,296.21	0.00	0.00	0.00
14,700.00	89.05	86.12	10,585.62	486.82	4,369.11	4,396.12	0.00	0.00	0.00
14,800.00	89.05	86.12	10,587.28	493.58	4,468.87	4,496.02	0.00	0.00	0.00
14,900.00	89.05	86.12	10,588.94	500.34	4,568.63	4,595.93	0.00	0.00	0.00
15,000.00	89.05	86.12	10,590.60	507.10	4,668.39	4,695.84	0.00	0.00	0.00
15,100.00	89.05	86.12	10,592.25	513.86	4,768.14	4,795.75	0.00	0.00	0.00
15,144.97	89.05	86.12	10,593.00	516.90	4,813.00	4,840.68	0.00	0.00	0.00
TD at 15144.97 - PBHL-PLU CVX JV BS #053H									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL-PLU CVX JV BS #	-89.05	86.12	10,593.00	516.90	4,813.00	454,458.40	651,420.50	32° 14' 54.50564 N	103° 50' 36.77613 W
- plan hits target center									
- Rectangle (sides W80.00 H40.00 D4,356.19)									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
400.00	400.00	T/Fresh Water		-0.20	83.87	
457.00	457.00	T/Rustler		-0.20	83.87	
799.00	799.00	T/Salado		-0.20	83.87	
4,021.00	4,021.00	T/Lamar		-0.20	83.87	
4,097.00	4,097.00	Ramsey		-0.20	83.87	
4,947.00	4,947.00	Cherry Canyon		-0.20	83.87	
6,415.80	6,414.98	Brushy Canyon		-0.20	83.87	
7,864.67	7,862.96	Bone Spring		-0.20	83.87	
8,836.25	8,833.95	1st Bone Spring Sand		-0.20	83.87	

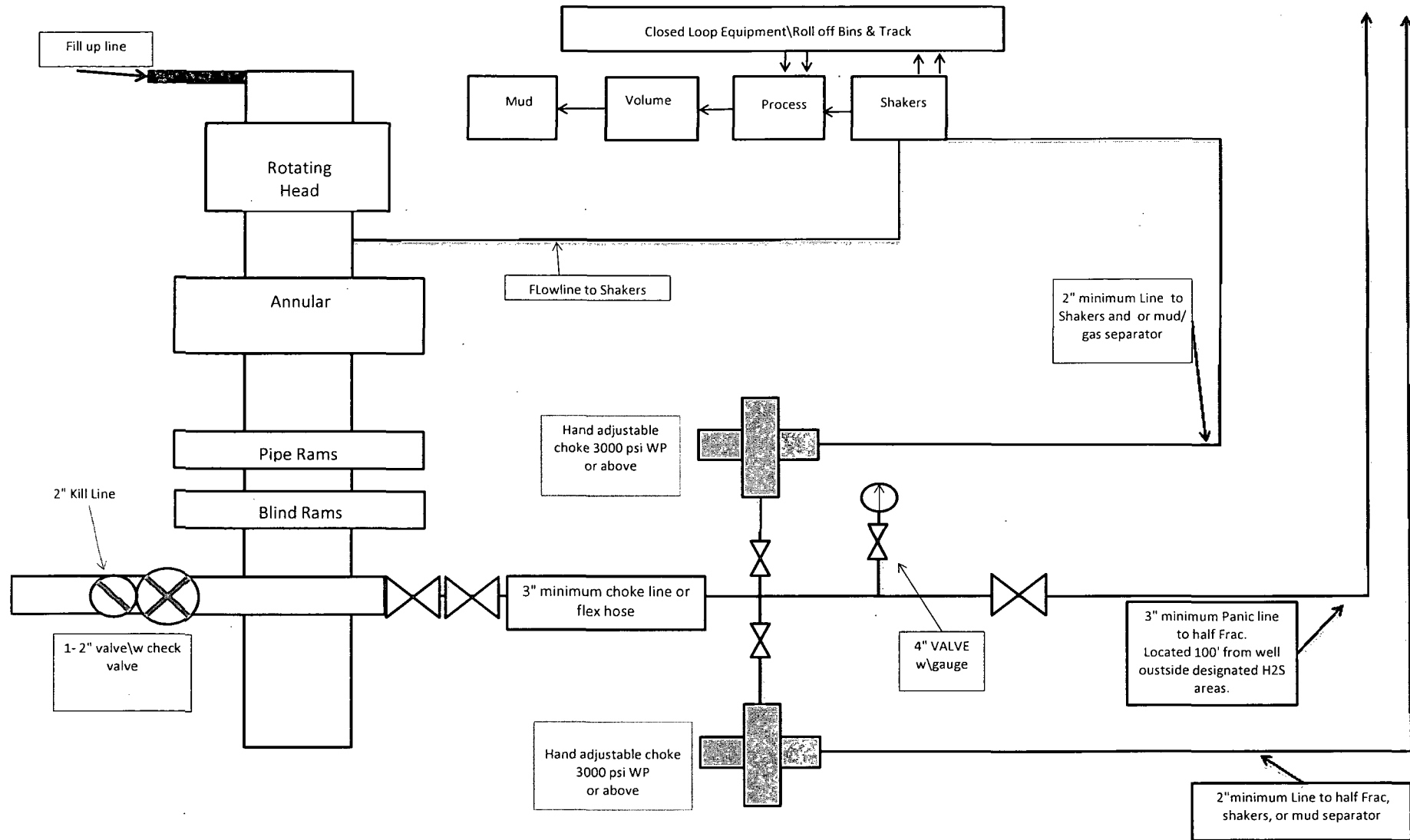


Phoenix Technology Services
Planning Report



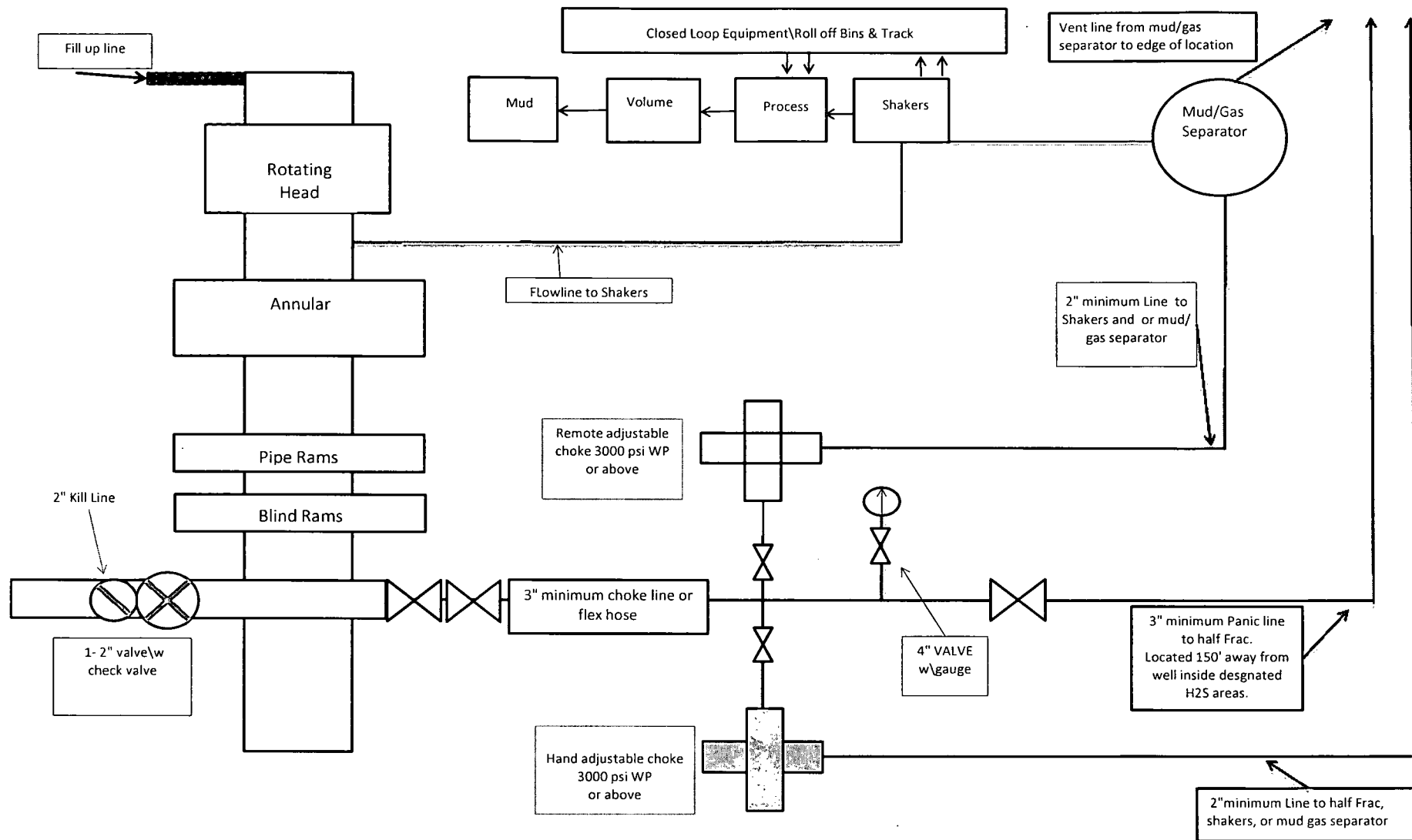
Database:	GCR DB	Local Co-ordinate Reference:	Well #053H
Company:	BOPCO, L P	TVD Reference:	KB @ 3470.00usft (Latshaw 14)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3470.00usft (Latshaw 14)
Site:	Poker Lake Unit CVX JV BS	North Reference:	Grid
Well:	#053H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WVB1		
Design:	Plan #2 05-15-14		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,000.00	5,000.00	0.00	0.00	Begin 2°/100' Build
5,100.00	5,099.98	1.75	0.00	Begin 2° Inc Hold
10,047.82	10,044.79	174.42	0.00	KOP, 12°/100' Build
10,788.78	10,520.78	222.44	467.38	LP, Begin 89.05° Inc Hold
15,144.97	10,593.00	516.90	4,813.00	TD at 15144.97



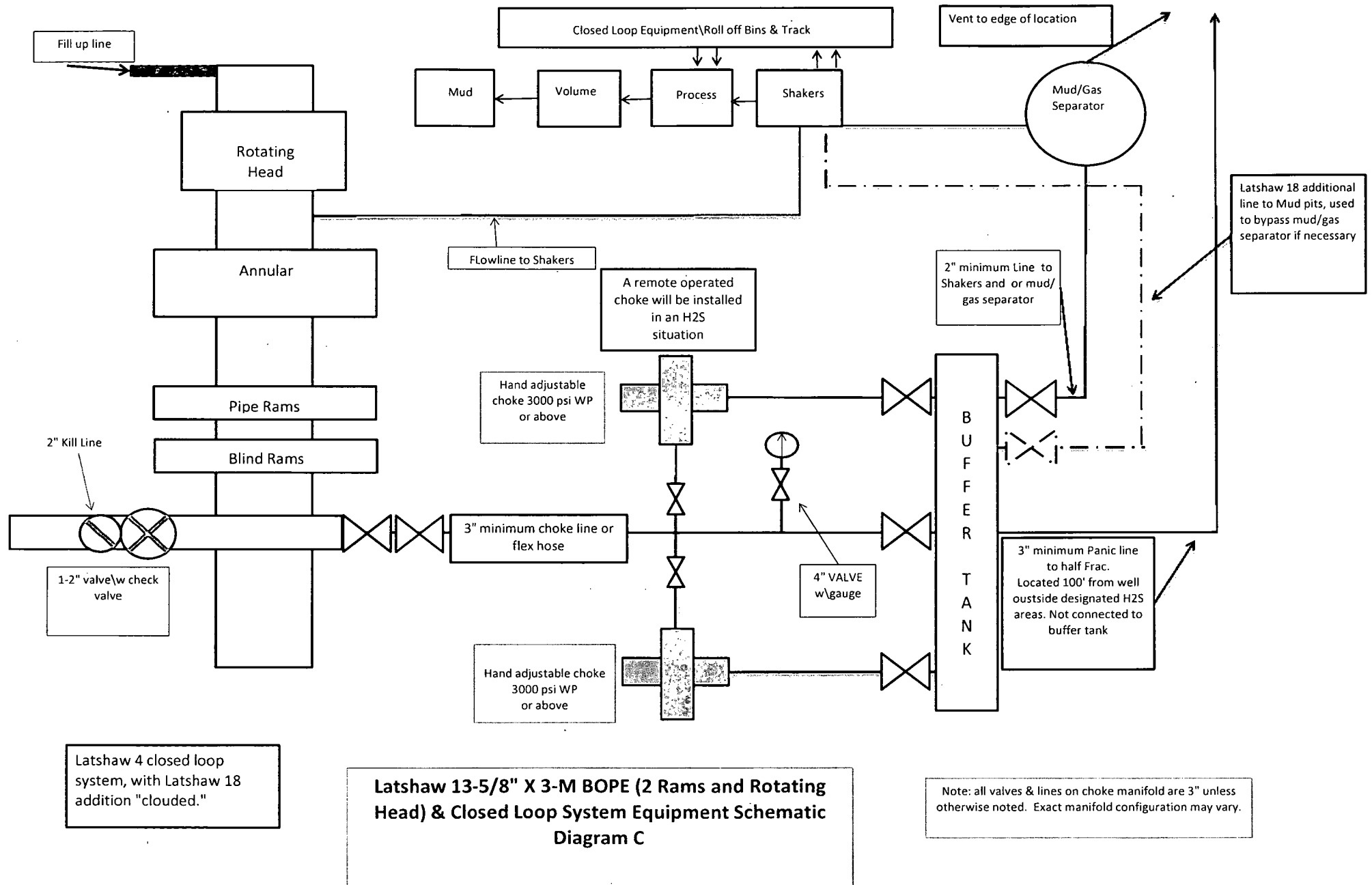
13-5/8" X 3-M BOPE (2 Rams and Rotating Head) & Closed Loop System Equipment Schematic Diagram A

Note: all valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.



**13-5/8" X 3-M BOPE (2 Rams and Rotating Head) &
Closed Loop System Equipment Schematic
H2S contingency
Diagram B**

Note: all valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.





Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

April 4, 2012

Customer: Latshaw

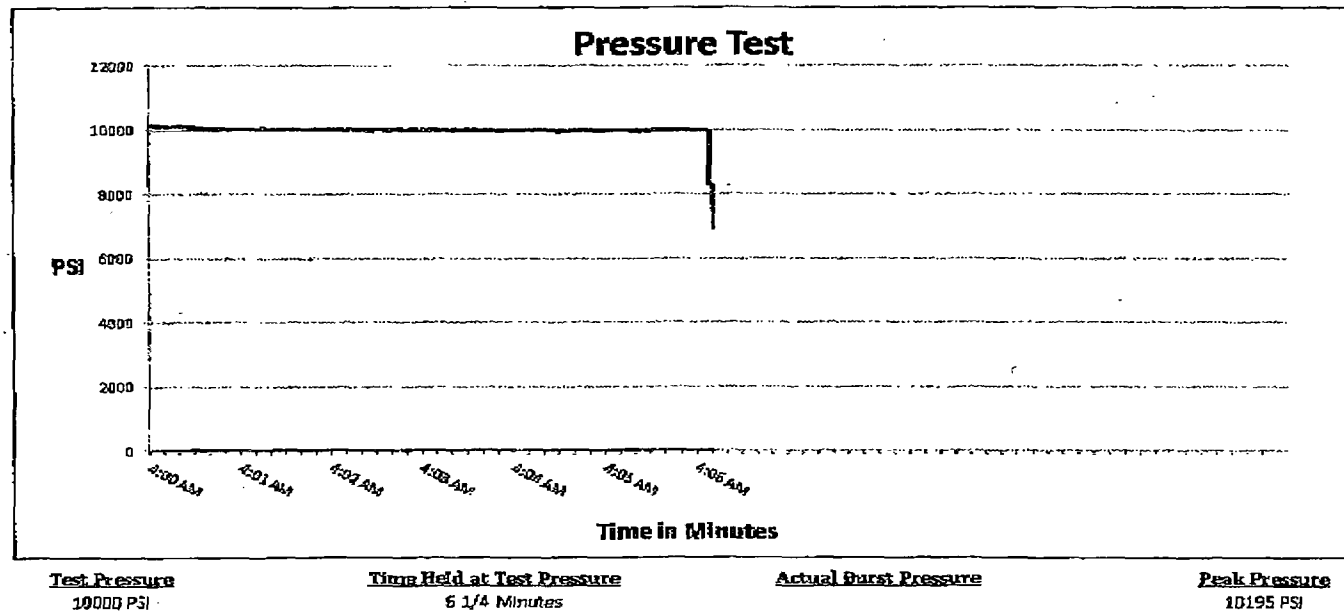
Pick Ticket #: 81610

Hose Specifications

<u>Hose Type</u>	<u>Length</u>
D	30'
<u>I.D.</u>	<u>O.D.</u>
3"	4 15/32
<u>Working Pressure</u>	<u>Burst Pressure</u>
5000 PSI	Standard Safety Multiplier Applies

Verification

<u>Type of Fitting</u>	<u>Coupling Method</u>
41/16 SK	Swage
<u>Die Size</u>	<u>Final O.D.</u>
5.12"	5.16"
<u>Hose Serial #</u>	<u>Hose Assembly Serial #</u>
6884	81610



Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Donnie Mclemore

Approved By: Bobby Fink

Donnie Mclemore

Bobby Fink

MIDWEST
HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT			
Customer: LATSHAW DRILLING		P.O. Number: RIG#4	
HOSE SPECIFICATIONS			
Type: CHOKER LINE		Length: 30'	
I.D. 3" INCHES		O.D. 6" INCHES	
WORKING PRESSURE 5,000 PSI	TEST PRESSURE 10,000 PSI	BURST PRESSURE PSI	
COUPLINGS			
Type of End Fitting 4 1/16 5K FLANGE			
Type of Coupling: SWEDGED		MANUFACTURED BY MIDWEST HOSE & SPECIALTY	
PROCEDURE			
<i>Hose assembly pressure tested with water at ambient temperature.</i>			
TIME HELD AT TEST PRESSURE 1 MIN.		ACTUAL BURST PRESSURE: 0 PSI	
COMMENTS: SO#81610 Hose is covered with stainless steel armour cover and wrapped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes			
Date: 3/2/2011	Tested By: BOBBY FINK		Approved: MENDI JACKSON

Permit Conditions of Approval

API: 30-015-42456

OCD Reviewer	Condition
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

Potash letters rec'd 6-23-14