

DISTRICT I

1025 N. French Dr., Hobbs, NM 88240
Phone (505) 393-8101 Fax: (505) 393-0760

DISTRICT II

511 S. First St., Artesia, NM 88210
Phone (505) 740-1829 Fax: (505) 740-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-8178 Fax: (505) 334-9170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 470-0450 Fax: (505) 470-3422State of New Mexico
Energy, Minerals and 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-42672		Pool Code 97944	Pool Name WC-015 G-06 S233036D (BONE SPRING)
Property Code 312176	Property Name Los Medanos 36 23 30 State		Well Number 4H
OGRID No. 260737	Operator Name BOPCO, L.P.		Elevation 3408'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	23 S	30 E		330	SOUTH	1940	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
C	36	23 S	30 E		330	NORTH	1940	WEST	EDDY

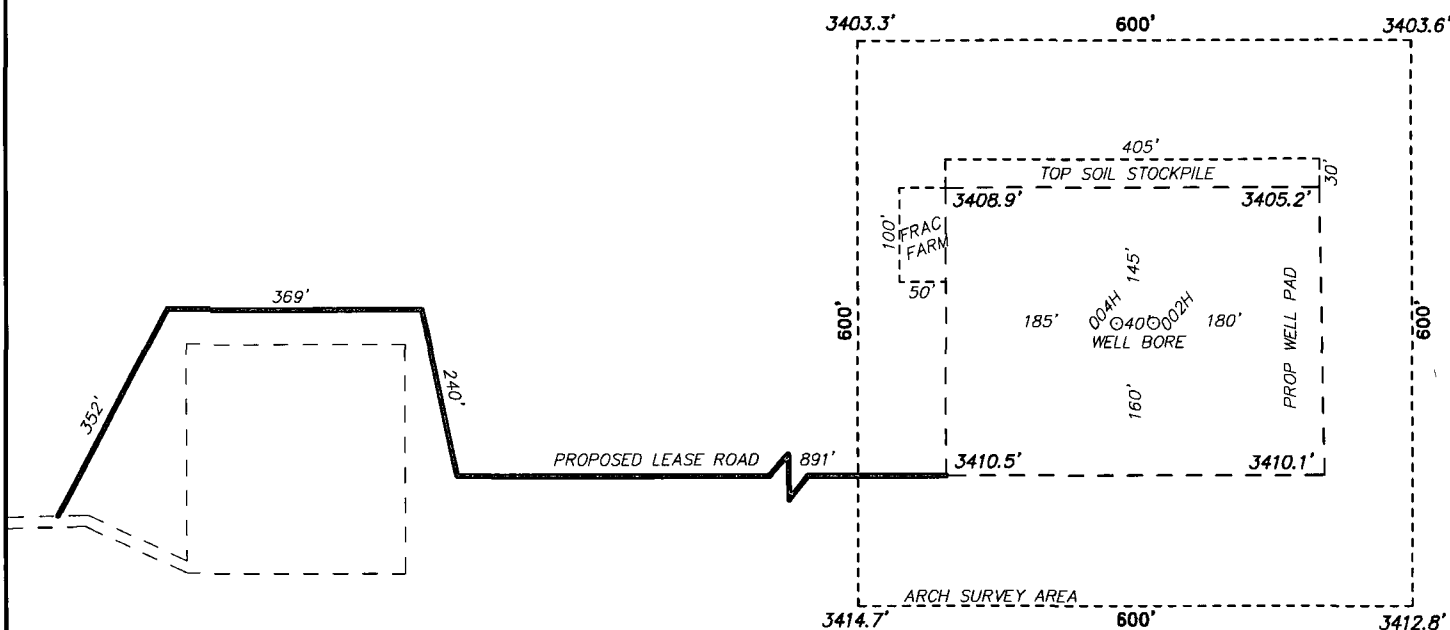
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

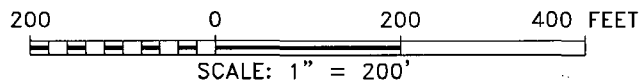
	PROPOSED BOTTOM HOLE LOCATION Lat - N 32°18'03.58" Long - W 103°50'09.97" NAD-27 NADSPCE- N 451448.7 E 653849.8 (NAD-27)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land, including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Whitney McKee</u> Date: <u>8/20/11</u> Printed Name: <u>Whitney McKee</u> Email Address: <u>wbmckee@basspet.com</u>
	SURFACE LOCATION Lat - N 32°15'17.82" Long - W 103°50'10.32" NAD-27 NADSPCE- N 456824.9 E 653981.3 (NAD-27)	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. Date Surveyed: <u>8/15/2011</u> Signature: <u>[Signature]</u> Title: <u>Professional Surveyor</u> Certificate No.: <u>7977</u> State: <u>NEW MEXICO</u> Scale: <u>1" = 1000'</u> Well Number: <u>30543</u>

SECTION 36, TOWNSHIP 23 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

BOPCO, L.P.
PLU CVX JV BS LOS MEDANOS 004H
ELEV. - 3408'
Lat - N 32°15'17.82"
Long - W 103°50'10.32"
NMSPCE- N 456824.9
E 653981.3
(NAD-27)



LOVING, NM IS ±15 MILES TO THE WEST OF LOCATION.



Directions to Location:

FROM THE JUNCTION OF HWY 128 AND MOBLEY RANCH, GO SOUTH ON MOBLEY RANCH TO A "Y" STAYING LEFT FOR 1.0 MILES TURNING EAST 1.0 MILES TO PROPOSED LEASE ROAD.

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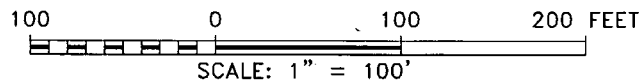
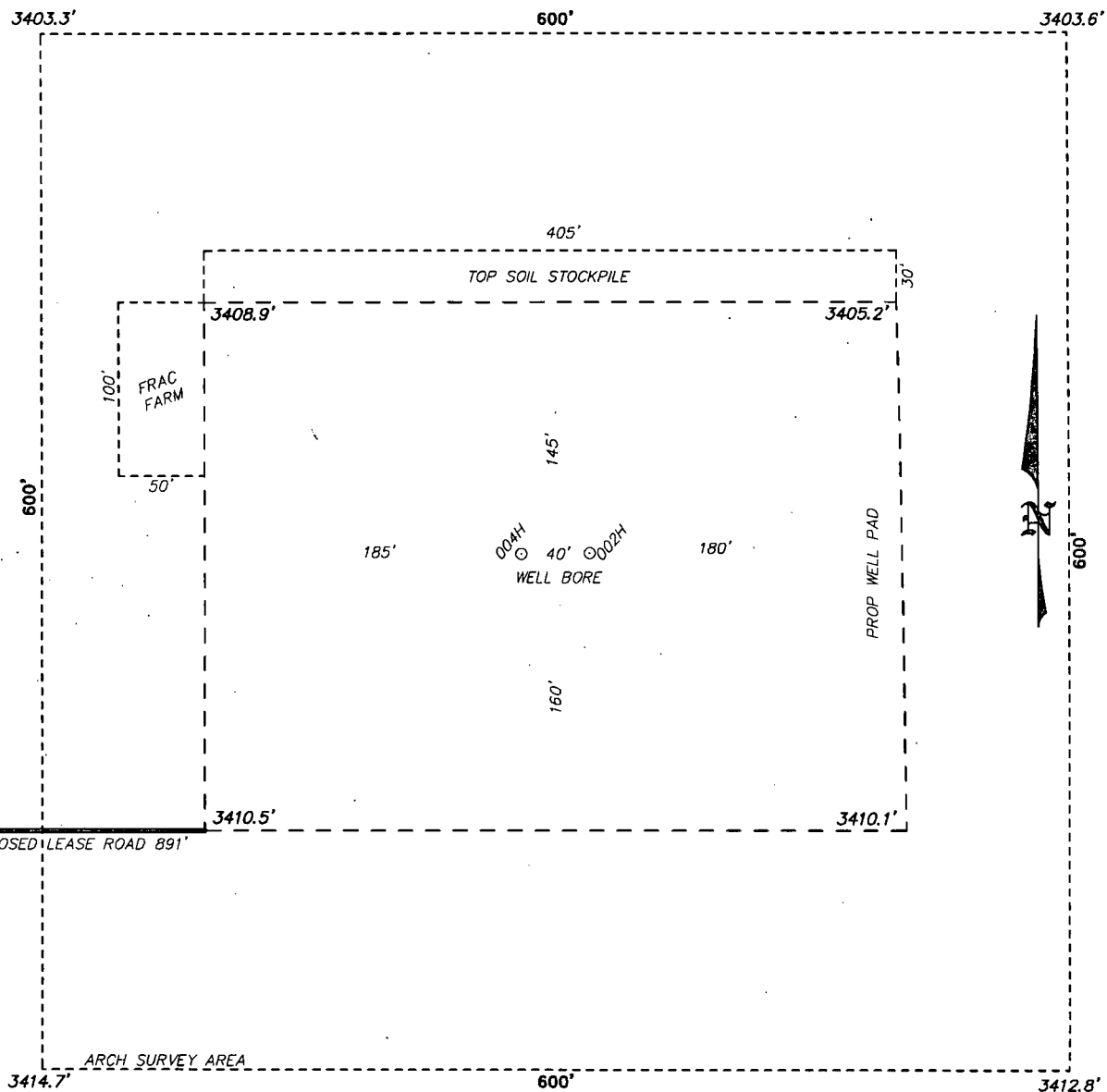
P.O. Box 1786 (575) 393-7316 - Office
1120 N. West County Rd. (575) 392-2206 - Fax
Hobbs, New Mexico 88241 basinsurveys.com

BOPCO, L.P.

REF: PLU CVX JV BS LOS MEDANOS 004H / WELL PAD TOPO

THE PLU CVX JV BS LOS MEDANOS 004H LOCATED 330' FROM
THE SOUTH LINE AND 1940' FROM THE WEST LINE OF
SECTION 36, TOWNSHIP 23 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

SECTION 36, TOWNSHIP 23 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



BOPCO, L.P.

REF: PLU CVX JV BS LOS MEDANOS 002H / WELL PAD TOPO

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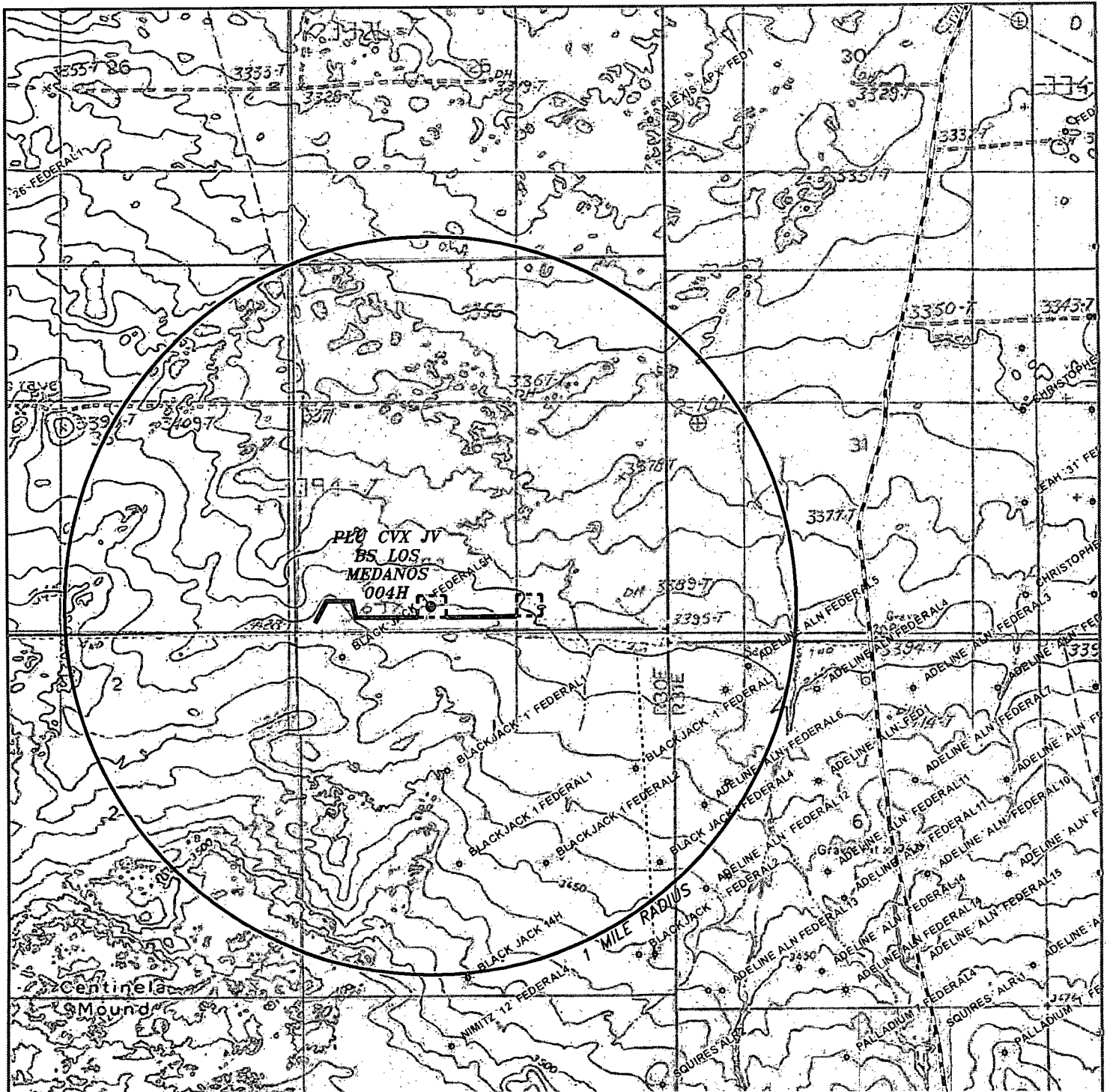
W.O. Number: 30543

Drawn By: J. SMALL

Date: 05-12-2014

Survey Date: 06-05-2014

Sheet 1 of 1 Sheets



PLU CVX JV BS LOS MEDANOS 004H

Located 330' FSL and 1940' FWL

Section 36, Township 23 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.

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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

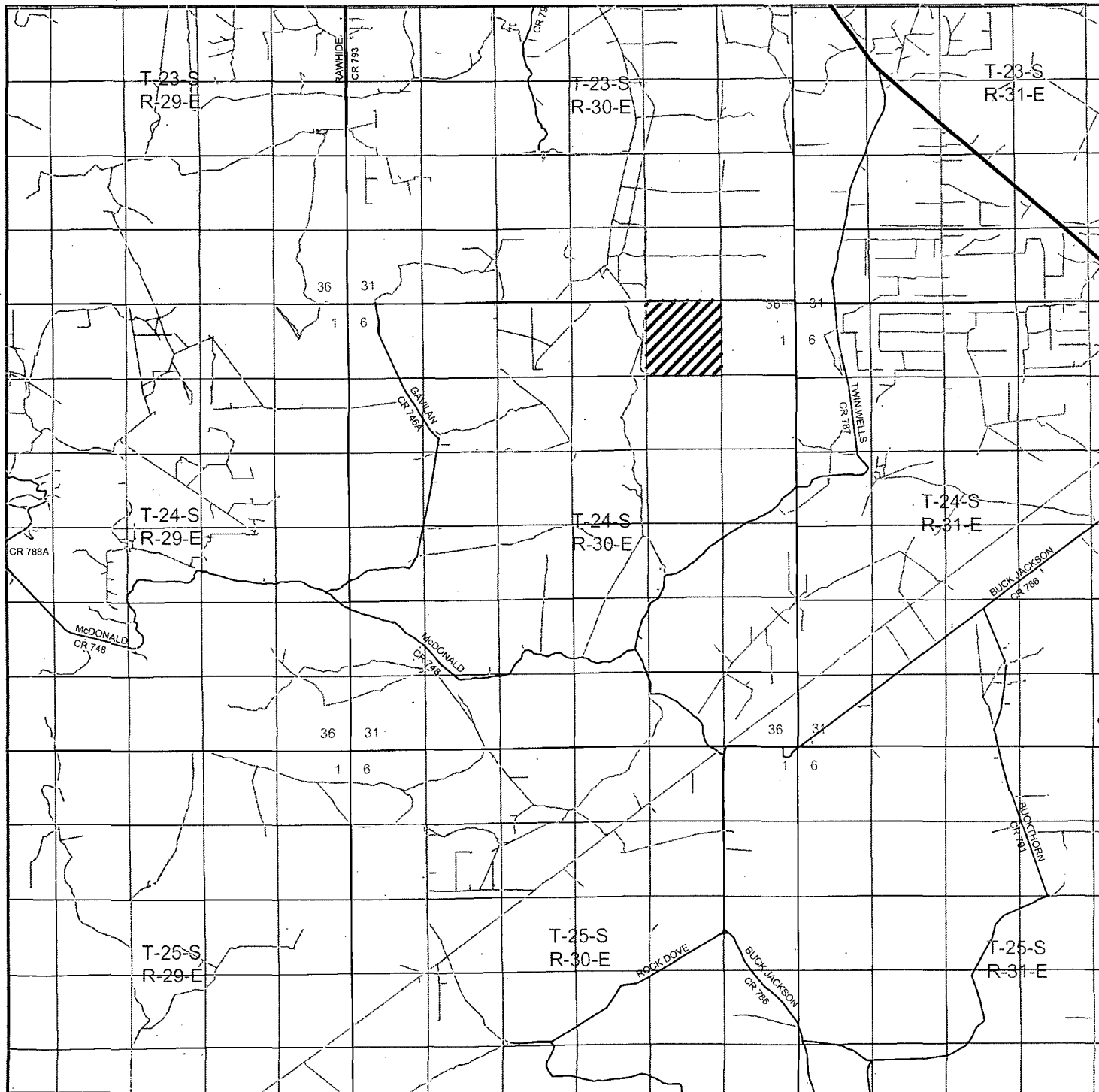
W.O. Number: JMS 30543

Survey Date: 06-05-2014

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



BOPCO, L.P.



PLU CVX JV BS LOS MEDANOS 004H

Located 330' FSL and 1940' FWL

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0 1 MI 2 MI 3 MI 4 MI

SCALE: 1" = 2 MILES

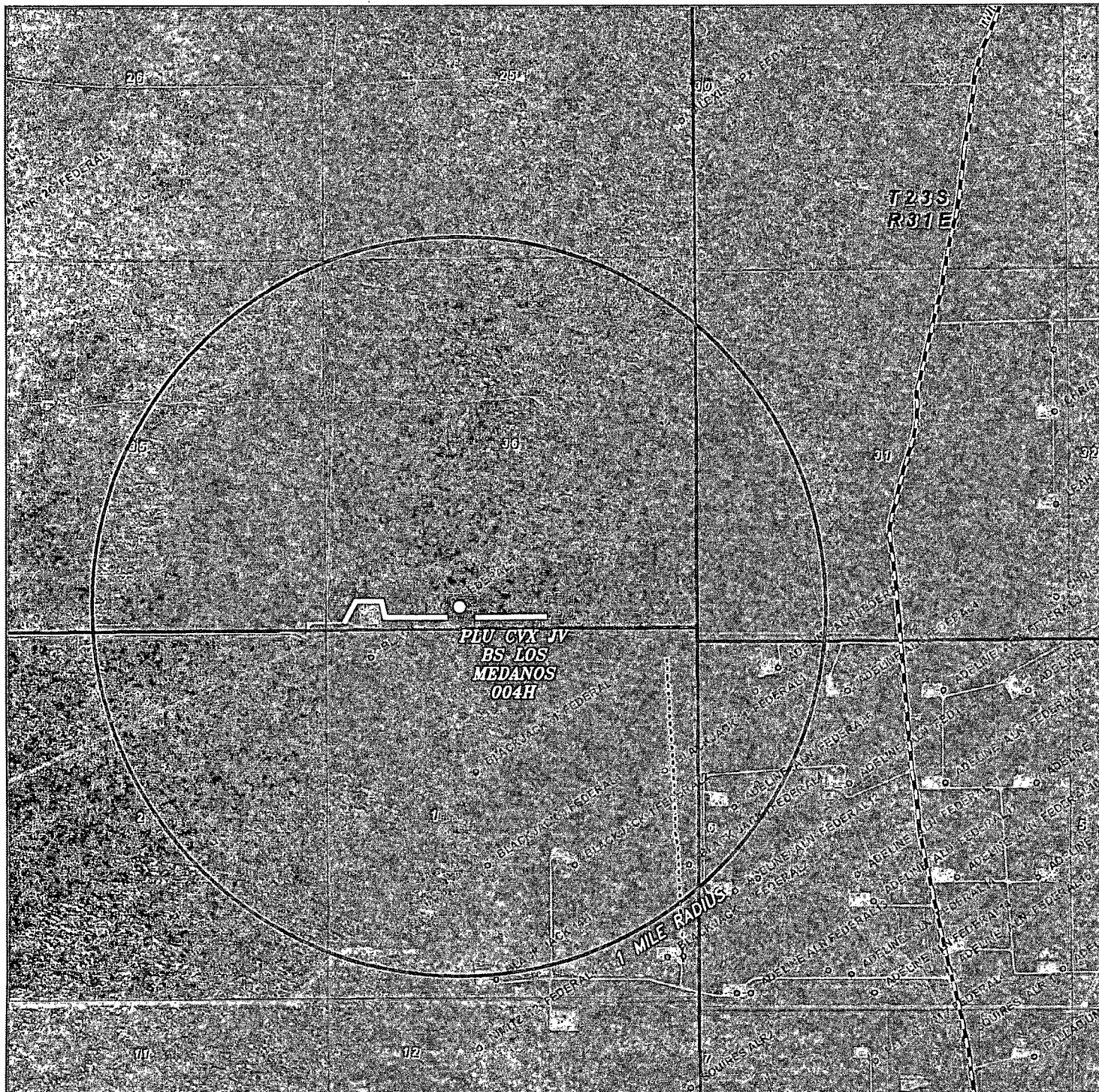
W.O. Number: JMS 30543

Survey Date: 06-05-2014

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



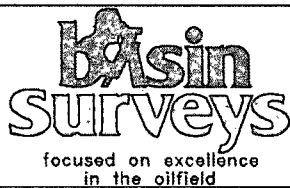
BOPCO, L.P.



PLU CVX JV BS LOS MEDANOS 004H

Located 330' FSL and 1940' FWL

**Section 36, Township 23 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.**



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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

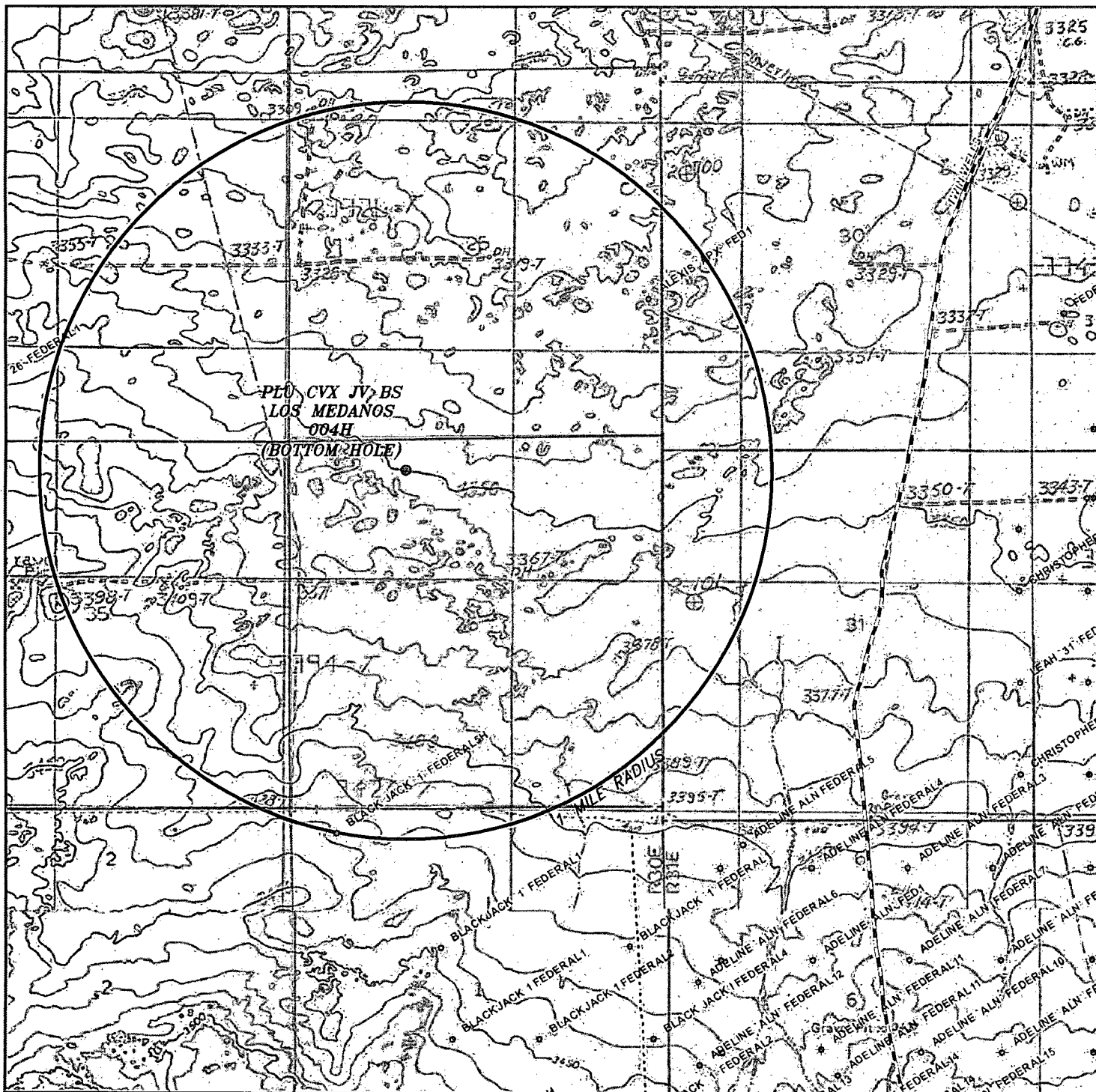
W.O. Number: JMS 30543

Survey Date: 06-05-2014

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



BOPCO, L.P.



PLU CVX JV BS LOS MEDANOS 004H (BOTTOM HOLE)

Located 330' FNL and 1940' FWL

Section 36, Township 23 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: JMS 30543

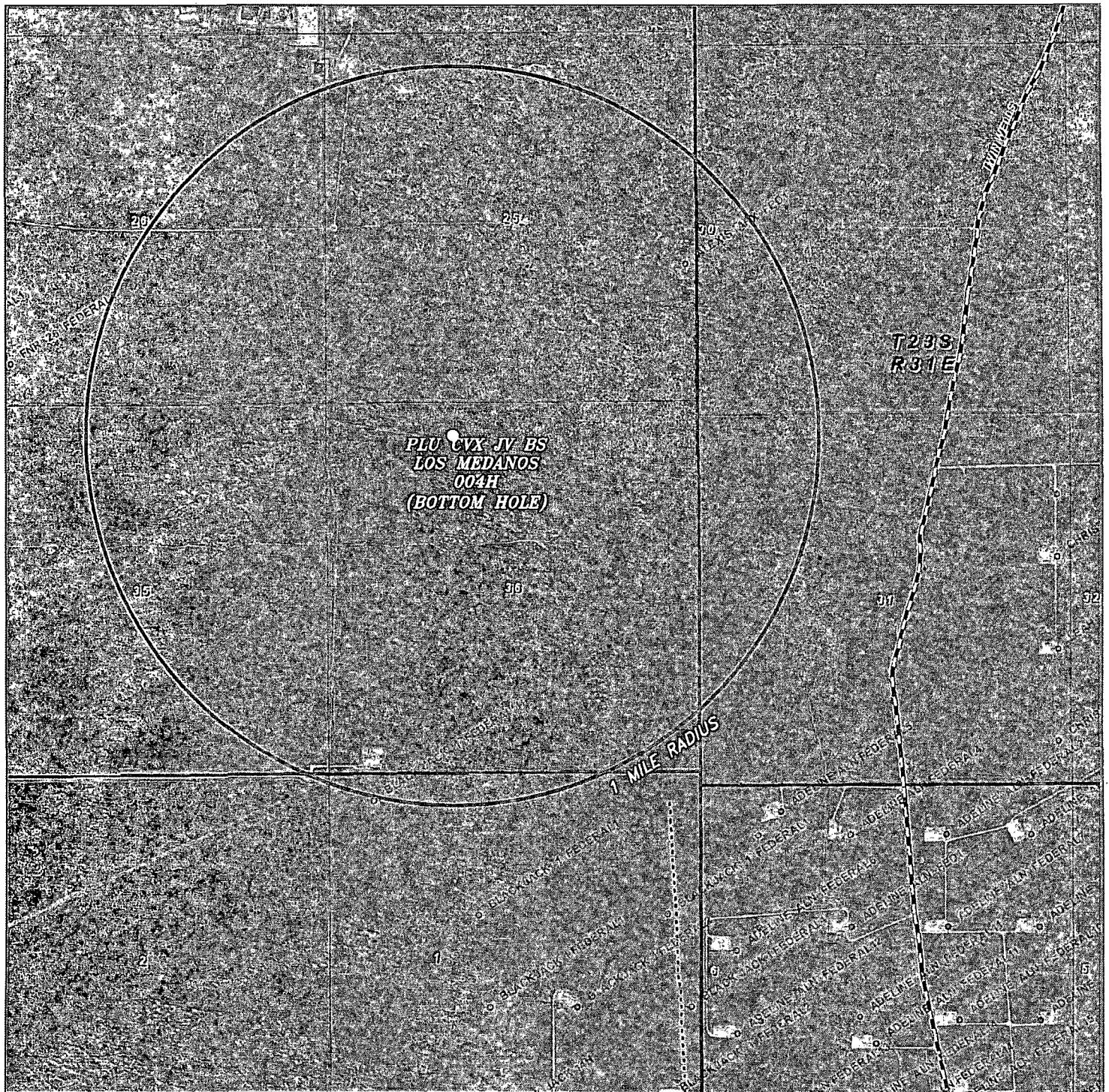
Survey Date: 06-05-2014

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



BOPCO, L.P.

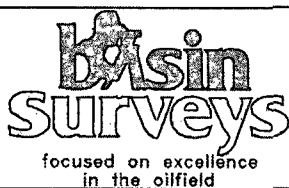




PLU CVX JV BS LOS MEDANOS 004H (BOTTOM HOLE)

Located 330' FNL and 1940' FWL

Section 36, Township 23 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: JMS 30543

Survey Date: 06-05-2014

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



BOPCO, L.P.

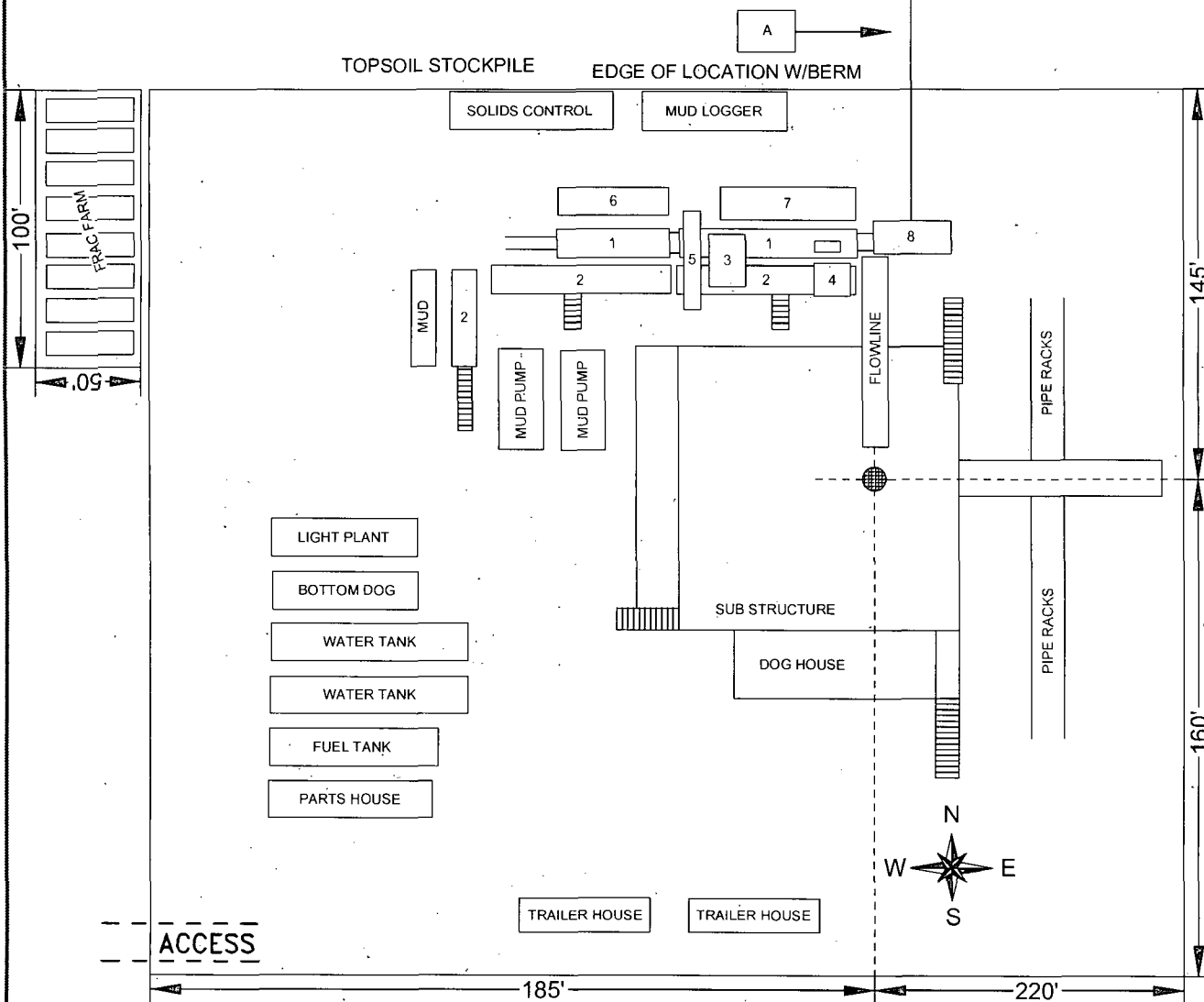
EXHIBIT "D"

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



PLU CVX JV BS LOS MEDANOS 004H

Located 330' FSL and 1940' FWL

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SCALE: NONE

W.O. Number: JMS 30543

Survey Date: 06-05-2014

BOPCO, L.P.

BOPCO, L.P.

Poker Lake Unit

CXV JV Los Medanos #004H

Eddy Co, NM



Plan Data for PLU CXV JV Los Medanos #004H

Plan Point Information:

MD	Inc	Az	TVD	W-S	E-W	North	East	VS	Sec	DLS
(USft)	(")	(")	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	456824.90	653981.30	0.00	0.00	0.00
10087.54	0.00	0.00	10087.54	0.00	0.00	456824.90	653981.30	0.00	0.00	0.00
10087.54	50.00	355.90	10565.00	476.24	-34.14	457301.14	653987.16	476.40	12.00	0.00
14995.74	90.00	355.90	10565.00	4623.80	-331.50	461448.70	653649.80	4625.31	0.00	0.00

Plan Data for PLU CXV JV Los Medanos #004H

Target Set Information:

Name: Poker Lake Unit CXV JV Los Medanos #004H

Position offsets from Slot centre

Name	TVD	Elevation	W-S	E-W	North	East	Shape	Comment
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)		
PBHL 004	10565.00	-7135.00	4623.80	-331.50	461448.70	653649.80	Cuboid	

Plan Data for PLU CXV JV Los Medanos #004H

Slot: Poker Lake Unit CXV JV Los Medanos #004H

Position:

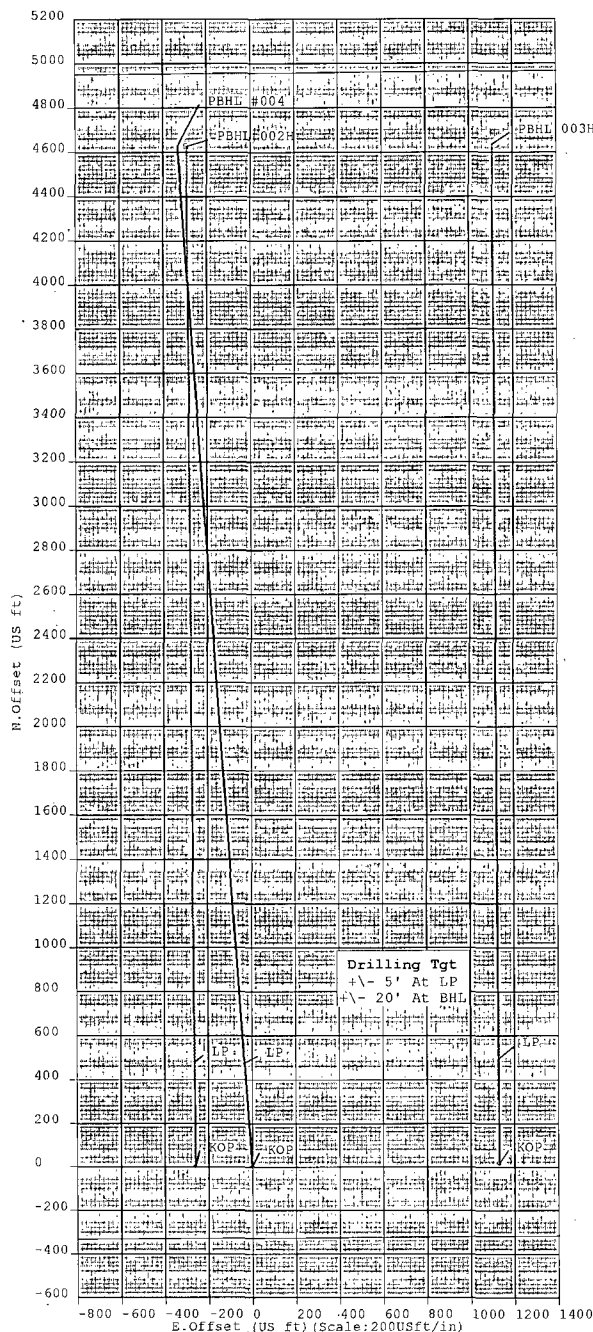
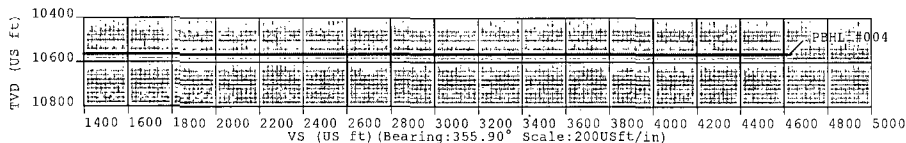
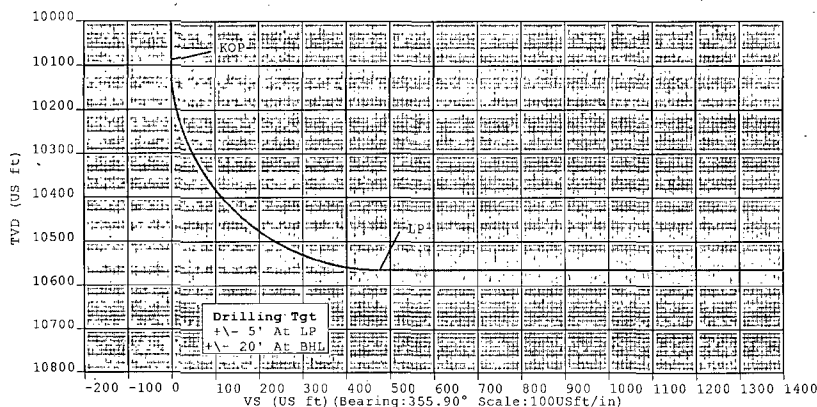
Offset is from Slot centre

N-S:	0.00USft	North	456824.90USft	Latitude:	32°15'17.8"
E-W:	0.00USft	East	653981.30USft	Longitude:	-103°50'6.8"
		Elevation Above VRD:	3409.00USft		

PLU CXV JV Los Medanos #004H

PLU CXV JV Los Medanos #002H

PLU CXV JV Los Medanos #003H



Sign Off: Russell Joyner

5D Plan Report**BOPCO, L.P.****Field Name:** *Eddy Co, NM Nad27 NMEZ***Site Name:** *Poker Lake Unit CXV JV Los Medanos #004H***Well Name:** *PLU CXV JV Los Medanos #004H***Plan:** *P1:V1*

16 June 2014

**Weatherford®**

PLU CXV JV Los Medanos #004H

Field Name Eddy Co. NM Nad27/NMEZ	Map Units : US ft		Company Name : BOPCO, L.P.	
	Vertical Reference Datum (VRD) : Mean Sea Level			
	Projected Coordinate System : NAD27 / New Mexico East			
	Comment :			
Site Name Poker Lake Unit CXV JV Los Medanos #004H	Units : US ft	North Reference : Grid	Convergence Angle : 0.27	
	Position	Northing : 456824.90 US ft	Latitude : 32° 15' 17.81"	
		Easting : 653981.30 US ft	Longitude : -103° 50' 6.83"	
	Elevation above Mean Sea Level : 3408.00 US ft		Comment :	
Slot Name Poker Lake Unit CXV JV Los Medanos #004H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 456824.90 US ft	Latitude : 32° 15' 17.81"	
	+E / -W : 0.00 US ft	Easting : 653981.30 US ft	Longitude : -103° 50' 6.83"	
	Slot TVD Reference : Ground Elevation			
Well Name PLU CXV JV Los Medanos #004H	Elevation above Mean Sea Level : 3408.00 US ft		Comment :	
	Type : Main well	UWI :	Plan : P1:V1	
	Rig Height <i>Kelly Bushing</i> : 22.00 US ft	Comment :		
	Relative to Mean Sea Level : 3430.00 US ft			
Well Name PLU CXV JV Los Medanos #004H	Closure Distance : 4635.67 US ft		Closure Azimuth : 355.899°	
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft	+E / -W : 0.00 US ft	Az : 355.90°	
	Magnetic Parameters			
Model : BGGM	Field Strength :	Dec : 7.48°	Dip : 60.08°	Date :
	48269.8nT			30/Aug/2014

Target Set

Name : Poker Lake Unit CXV **Number of Targets** : 1
JV Los Medanos #004H

Comment :

Target Name PBHL 004 Shape Cuboid	Position (Relative to Slot centre)			
	+N / -S : 4623.80 US ft	Northing : 461448.70 US ft	Latitude : 32° 16' 3.58"	
	+E / -W : -331.50 US ft	Easting : 653649.80 US ft	Longitude : -103° 50' 10.44"	
	TVD (Kelly Bushing) : 10565.00 US ft			
Orientation Azimuth : 0.00°		Inclination : 0.00°		
Dimensions Length : 0.00 US ft		Breadth : 0.00 US ft		Height : 0.00 US ft

Well path created using minimum curvature

5D Plan Report

Salient Points (Relative to Slot centre, TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	B. Rate (°/100 US ft)	T. Rate (°/100 US ft)	T. Face (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10087.54	0.00	0.00	10087.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
10837.54	90.00	355.90	10565.00	476.24	-34.14	477.47	12.00	12.00	0.00	355.90	LP
14995.74	90.00	355.90	10565.00	4623.80	-331.50	4635.67	0.00	0.00	0.00	0.00	PBHL #004

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)		Comment
10000.00	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	456824.90	653981.30		
10087.54	0.00	0.00	10087.54	0.00	0.00	0.00	0.00	456824.90	653981.30		KOP
10100.00	1.50	355.90	10100.00	0.16	-0.01	0.16	12.00	456825.06	653981.29		
10200.00	13.50	355.90	10198.96	13.15	-0.94	13.18	12.00	456838.05	653980.36		
10300.00	25.50	355.90	10293.06	46.38	-3.32	46.49	12.00	456871.28	653977.98		
10400.00	37.50	355.90	10378.17	98.39	-7.05	98.64	12.00	456923.29	653974.25		
10430.82	41.19	355.90	10402.00	117.87	-8.45	118.18	12.00	456942.77	653972.85		2nd BS Sane
10500.00	49.50	355.90	10450.58	166.92	-11.97	167.35	12.00	456991.82	653969.33		
10600.00	61.50	355.90	10507.13	248.96	-17.85	249.60	12.00	457073.86	653963.45		
10700.00	73.50	355.90	10545.33	340.94	-24.44	341.82	12.00	457165.84	653956.86		
10800.00	85.50	355.90	10563.53	438.84	-31.46	439.96	12.00	457263.74	653949.84		
10837.54	90.00	355.90	10565.00	476.24	-34.14	477.47	12.00	457301.14	653947.16		LP
10900.00	90.00	355.90	10565.00	538.54	-38.61	539.92	0.00	457363.44	653942.69		
11000.00	90.00	355.90	10565.00	638.29	-45.76	639.92	0.00	457463.19	653935.54		
11100.00	90.00	355.90	10565.00	738.03	-52.91	739.92	0.00	457562.93	653928.39		
11200.00	90.00	355.90	10565.00	837.77	-60.06	839.92	0.00	457662.67	653921.24		
11300.00	90.00	355.90	10565.00	937.52	-67.21	939.92	0.00	457762.42	653914.09		
11400.00	90.00	355.90	10565.00	1037.26	-74.37	1039.92	0.00	457862.16	653906.93		
11500.00	90.00	355.90	10565.00	1137.01	-81.52	1139.92	0.00	457961.91	653899.78		
11600.00	90.00	355.90	10565.00	1236.75	-88.67	1239.92	0.00	458061.65	653892.63		
11700.00	90.00	355.90	10565.00	1336.49	-95.82	1339.92	0.00	458161.39	653885.48		
11800.00	90.00	355.90	10565.00	1436.24	-102.97	1439.92	0.00	458261.14	653878.33		
11900.00	90.00	355.90	10565.00	1535.98	-110.12	1539.92	0.00	458360.88	653871.18		
12000.00	90.00	355.90	10565.00	1635.73	-117.27	1639.92	0.00	458460.63	653864.03		
12100.00	90.00	355.90	10565.00	1735.47	-124.42	1739.92	0.00	458560.37	653856.88		
12200.00	90.00	355.90	10565.00	1835.21	-131.57	1839.92	0.00	458660.11	653849.73		
12300.00	90.00	355.90	10565.00	1934.96	-138.73	1939.92	0.00	458759.86	653842.57		
12400.00	90.00	355.90	10565.00	2034.70	-145.88	2039.92	0.00	458859.60	653835.42		
12500.00	90.00	355.90	10565.00	2134.45	-153.03	2139.92	0.00	458959.35	653828.27		
12600.00	90.00	355.90	10565.00	2234.19	-160.18	2239.92	0.00	459059.09	653821.12		
12700.00	90.00	355.90	10565.00	2333.93	-167.33	2339.92	0.00	459158.83	653813.97		
12800.00	90.00	355.90	10565.00	2433.68	-174.48	2439.92	0.00	459258.58	653806.82		
12900.00	90.00	355.90	10565.00	2533.42	-181.63	2539.92	0.00	459358.32	653799.67		
13000.00	90.00	355.90	10565.00	2633.17	-188.78	2639.92	0.00	459458.07	653792.52		
13100.00	90.00	355.90	10565.00	2732.91	-195.93	2739.92	0.00	459557.81	653785.37		
13200.00	90.00	355.90	10565.00	2832.65	-203.09	2839.92	0.00	459657.55	653778.21		
13300.00	90.00	355.90	10565.00	2932.40	-210.24	2939.92	0.00	459757.30	653771.06		
13400.00	90.00	355.90	10565.00	3032.14	-217.39	3039.92	0.00	459857.04	653763.91		
13500.00	90.00	355.90	10565.00	3131.89	-224.54	3139.92	0.00	459956.79	653756.76		
13600.00	90.00	355.90	10565.00	3231.63	-231.69	3239.92	0.00	460056.53	653749.61		
13700.00	90.00	355.90	10565.00	3331.37	-238.84	3339.92	0.00	460156.27	653742.46		
13800.00	90.00	355.90	10565.00	3431.12	-245.99	3439.92	0.00	460256.02	653735.31		
13900.00	90.00	355.90	10565.00	3530.86	-253.14	3539.92	0.00	460355.76	653728.16		
14000.00	90.00	355.90	10565.00	3630.61	-260.29	3639.92	0.00	460455.51	653721.01		
14100.00	90.00	355.90	10565.00	3730.35	-267.44	3739.92	0.00	460555.25	653713.86		
14200.00	90.00	355.90	10565.00	3830.09	-274.60	3839.92	0.00	460654.99	653706.70		
14300.00	90.00	355.90	10565.00	3929.84	-281.75	3939.92	0.00	460754.74	653699.55		
14400.00	90.00	355.90	10565.00	4029.58	-288.90	4039.92	0.00	460854.48	653692.40		
14500.00	90.00	355.90	10565.00	4129.33	-296.05	4139.92	0.00	460954.23	653685.25		
14600.00	90.00	355.90	10565.00	4229.07	-303.20	4239.92	0.00	461053.97	653678.10		

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
14700.00	90.00	355.90	10565.00	4328.81	-310.35	4339.92	0.00	461153.71	653670.95	
14800.00	90.00	355.90	10565.00	4428.56	-317.50	4439.92	0.00	461253.46	653663.80	
14900.00	90.00	355.90	10565.00	4528.30	-324.65	4539.92	0.00	461353.20	653656.65	
14995.74	90.00	355.90	10565.00	4623.80	-331.50	4635.67	0.00	461448.70	653649.80	PBHL #004

Formation Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	Name	Comment	
10430.82	41.19	355.90	10402.00	117.87	-8.45	456942.77	653972.85	2nd BS Sane		

5D Anti-Collision Report**BOPCO, L.P.****Field Name:** *Eddy Co, NM Nad27 NMEZ***Site Name:** *Poker Lake Unit CXV JV Los Medanos #004H***Well Name:** *PLU CXV JV Los Medanos #004H*

16 June 2014

**Weatherford®**



Weatherford

PLU CXV JV Los Medanos #004H

Field Name Eddy Co, NM Nad27 NMEZ	Map Units : US ft		Company Name : BOPCO, L.P.	
	Vertical Reference Datum (VRD) : Mean Sea Level			
	Projected Coordinate System : NAD27 / New Mexico East			
	Comment :			
Site Name Poker Lake Unit CXV JV Los Medanos #004H	Units : US ft	North Reference : Grid	Convergence Angle : 0.27	
	Position	Northing : 456824.90 US ft	Latitude : 32° 15' 17.81"	
		Easting : 653981.30 US ft	Longitude : -103° 50' 6.83"	
	Elevation above Mean Sea Level : 3408.00 US ft			
Comment :				
Slot Name Poker Lake Unit CXV JV Los Medanos #004H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 456824.90 US ft	Latitude : 32° 15' 17.81"	
	+E / -W : 0.00 US ft	Easting : 653981.30 US ft	Longitude : -103° 50' 6.83"	
	Slot TVD Reference : Ground Elevation			
Elevation above Mean Sea Level : 3408.00 US ft				
Comment :				
Well Name PLU CXV JV Los Medanos #004H	Type : Main well		UWI :	Plan : Working Plan
	Rig Height <i>Kelly Bushing</i> : 22.00 US ft		Comment :	
	Relative to Mean Sea Level : 3430.00 US ft			
	Closure Distance : 4635.67 US ft		Closure Azimuth : 355.899°	
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft	Az : 355.90°
	Magnetic Parameters			
	Model : BGGM	Field Strength :	Dec : 7.48°	Dip : 60.08°
	48269.8nT		Date : 30/Aug/2014	

Collision/Uncertainty Analysis				
Primary Well	Start MD (US ft)	End MD (US ft)	Collision Risk Interval	No. of Std Deviations in Error Computation
PLU CXV JV Los Medanos #004H (p)	0.00	14995.74	100.00	2

Secondary Well Names

PLU CXV JV Los Medanos #002H (p)

Anti-Collision Report Terminology	
S.Minor, S.Major	: Radii of the ellipse of uncertainty at the current location as seen in the along hole direction,
PHI	: Angle between high-side vector and semi-minor axis
TVD Spread	: Total TVD range of the ellipsoid of uncertainty at the current location
ES	: Distance between the extremities of the primary and secondary uncertainty ellipsoids in the direction Cr-Cr
T.Face to Sec	: Angle between the Hi-Side vector of the primary well at the current location and line of closest approach between the two wells

Separation factors calculated using Pedal Curve (Independent Uncertainty). Well path created using minimum curvature.

5D Anti-Collision Report

Anti-Collision Proximity Summary (TVD relative to)

Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
PLU CXV JV Los Medanos #002H (p)	9673.83	9671.56	9673.83	260.53	216.61	5.93	

Secondary Well: PLU CXV JV Los Medanos #002H (p) (TVD Relative to Kelly Bushing (Primary)); All Azimuth Relative to GRID NORTH									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	1.00	270.07	0.01	0.01	259.90	259.18	360.10	
100.00	100.00	101.00	270.07	0.12	0.12	259.90	258.95	274.31	
200.00	200.00	201.00	270.07	0.34	0.34	259.90	258.51	186.50	
300.00	300.00	301.00	270.07	0.57	0.57	259.90	258.06	141.07	
400.00	400.00	401.00	270.07	0.79	0.79	259.90	257.61	113.41	
500.00	500.00	501.00	270.07	1.02	1.02	259.90	257.16	94.82	
600.00	600.00	601.00	270.07	1.24	1.24	259.90	256.71	81.46	
700.00	700.00	701.00	270.07	1.47	1.47	259.90	256.26	71.41	
800.00	800.00	801.00	270.07	1.69	1.69	259.90	255.81	63.56	
900.00	900.00	901.00	270.07	1.92	1.92	259.90	255.36	57.26	
1000.00	1000.00	1001.00	270.07	2.14	2.14	259.90	254.91	52.10	
1100.00	1100.00	1101.00	270.07	2.37	2.37	259.90	254.46	47.80	
1200.00	1200.00	1201.00	270.07	2.59	2.59	259.90	254.01	44.15	
1300.00	1300.00	1301.00	270.07	2.82	2.82	259.90	253.56	41.02	
1400.00	1400.00	1401.00	270.07	3.04	3.04	259.90	253.11	38.30	
1500.00	1500.00	1501.00	270.07	3.26	3.26	259.90	252.66	35.92	
1600.00	1600.00	1601.00	270.07	3.49	3.49	259.90	252.21	33.82	
1700.00	1700.00	1701.00	270.07	3.71	3.71	259.90	251.77	31.95	
1800.00	1800.00	1801.00	270.07	3.94	3.94	259.90	251.32	30.28	
1900.00	1900.00	1901.00	270.07	4.16	4.16	259.90	250.87	28.77	
2000.00	2000.00	2001.00	270.07	4.39	4.39	259.90	250.42	27.41	
2100.00	2100.00	2101.00	270.07	4.61	4.61	259.90	249.97	26.17	
2200.00	2200.00	2201.00	270.07	4.84	4.84	259.90	249.52	25.03	
2300.00	2300.00	2301.00	270.07	5.06	5.06	259.90	249.07	23.99	
2400.00	2400.00	2401.00	270.07	5.29	5.29	259.90	248.62	23.04	
2500.00	2500.00	2501.00	270.07	5.51	5.51	259.90	248.17	22.16	
2600.00	2600.00	2601.00	270.07	5.74	5.74	259.90	247.72	21.34	
2700.00	2700.00	2701.00	270.07	5.96	5.96	259.90	247.27	20.58	
2800.00	2800.00	2801.00	270.07	6.19	6.19	259.90	246.82	19.87	
2900.00	2900.00	2901.00	270.07	6.41	6.41	259.90	246.37	19.21	
3000.00	3000.00	3001.00	270.07	6.64	6.64	259.90	245.92	18.59	
3100.00	3100.00	3101.00	270.07	6.86	6.86	259.90	245.47	18.01	
3200.00	3200.00	3201.00	270.07	7.09	7.09	259.90	245.02	17.47	
3300.00	3300.00	3301.00	270.07	7.31	7.31	259.90	244.57	16.96	
3400.00	3400.00	3401.00	270.07	7.54	7.54	259.90	244.12	16.47	
3500.00	3500.00	3501.00	270.07	7.76	7.76	259.90	243.67	16.02	
3600.00	3600.00	3601.00	270.07	7.98	7.98	259.90	243.22	15.59	
3700.00	3700.00	3701.00	270.07	8.21	8.21	259.90	242.78	15.18	
3800.00	3800.00	3801.00	270.07	8.43	8.43	259.90	242.33	14.79	
3900.00	3900.00	3901.00	270.07	8.66	8.66	259.90	241.88	14.42	
4000.00	4000.00	4001.00	270.07	8.88	8.88	259.90	241.43	14.07	
4100.00	4100.00	4101.00	270.07	9.11	9.11	259.90	240.98	13.73	
4200.00	4200.00	4201.00	270.07	9.33	9.33	259.90	240.53	13.42	
4300.00	4300.00	4301.00	270.07	9.56	9.56	259.90	240.08	13.11	
4400.00	4400.00	4401.00	270.07	9.78	9.78	259.90	239.63	12.82	
4500.00	4500.00	4501.00	270.07	10.01	10.01	259.90	239.18	12.54	
4600.00	4600.00	4601.00	270.07	10.23	10.23	259.90	238.73	12.28	
4700.00	4700.00	4701.00	270.07	10.46	10.46	259.90	238.28	12.02	
4800.00	4800.00	4801.00	270.07	10.68	10.68	259.90	237.83	11.78	
4900.00	4900.00	4901.00	270.07	10.91	10.91	259.90	237.38	11.54	
5000.00	5000.00	5001.00	270.07	11.13	11.13	259.90	236.93	11.32	
5100.00	5100.00	5101.00	270.07	11.36	11.36	259.90	236.48	11.10	

5D Anti-Collision Report

Secondary Well: PLU CXV JV Los Medanos #002H (p) (TVD Relative to Kelly Bushing (Primary); All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec. (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
5200.00	5200.00	5201.00	270.07	11.58	11.58	259.90	236.03	10.89	
5300.00	5300.00	5301.00	270.07	11.81	11.81	259.90	235.58	10.69	
5400.00	5400.00	5401.00	270.07	12.03	12.03	259.90	235.13	10.49	
5500.00	5500.00	5501.00	270.07	12.26	12.26	259.90	234.68	10.31	
5600.00	5600.00	5601.00	270.07	12.48	12.48	259.90	234.23	10.13	
5700.00	5700.00	5701.00	270.07	12.70	12.70	259.90	233.78	9.95	
5800.00	5800.00	5801.00	270.07	12.93	12.93	259.90	233.34	9.78	
5900.00	5900.00	5901.00	270.07	13.15	13.15	259.90	232.89	9.62	
6000.00	6000.00	6001.00	270.07	13.38	13.38	259.90	232.44	9.46	
6100.00	6100.00	6101.00	270.07	13.60	13.60	259.90	231.99	9.31	
6200.00	6200.00	6201.00	270.07	13.83	13.83	259.90	231.54	9.16	
6300.00	6300.00	6301.00	270.07	14.05	14.05	259.90	231.09	9.02	
6400.00	6400.00	6401.00	270.07	14.28	14.28	259.90	230.64	8.88	
6500.00	6500.00	6501.00	270.07	14.50	14.50	259.90	230.19	8.75	
6600.00	6600.00	6601.00	270.07	14.73	14.73	259.90	229.74	8.62	
6700.00	6700.00	6701.00	270.07	14.95	14.95	259.90	229.29	8.49	
6800.00	6800.00	6801.00	270.07	15.18	15.18	259.90	228.84	8.37	
6900.00	6900.00	6901.00	270.07	15.40	15.40	259.90	228.39	8.25	
7000.00	7000.00	7001.00	270.07	15.63	15.63	259.90	227.94	8.13	
7100.00	7100.00	7101.00	270.07	15.85	15.85	259.90	227.49	8.02	
7200.00	7200.00	7201.00	270.07	16.08	16.08	259.90	227.04	7.91	
7300.00	7300.00	7301.00	270.07	16.30	16.30	259.90	226.59	7.80	
7400.00	7400.00	7401.00	270.07	16.53	16.53	259.90	226.14	7.70	
7500.00	7500.00	7501.00	270.07	16.75	16.75	259.90	225.69	7.60	
7600.00	7600.00	7601.00	270.07	16.98	16.98	259.90	225.24	7.50	
7700.00	7700.00	7701.00	270.07	17.20	17.20	259.90	224.79	7.40	
7800.00	7800.00	7801.00	270.07	17.43	17.43	259.90	224.34	7.31	
7900.00	7900.00	7901.00	270.07	17.65	17.65	259.90	223.89	7.22	
8000.00	8000.00	8001.00	270.07	17.87	17.87	259.90	223.44	7.13	
8100.00	8100.00	8101.00	270.07	18.10	18.10	259.90	222.99	7.04	
8200.00	8200.00	8201.00	270.07	18.32	18.32	259.90	222.55	6.96	
8300.00	8300.00	8301.00	270.07	18.55	18.55	259.90	222.10	6.87	
8400.00	8400.00	8401.00	270.07	18.77	18.77	259.90	221.65	6.79	
8500.00	8500.00	8501.00	270.07	19.00	19.00	259.90	221.20	6.72	
8600.00	8600.00	8601.00	270.07	19.22	19.22	259.90	220.75	6.64	
8700.00	8700.00	8701.00	270.07	19.45	19.45	259.90	220.30	6.56	
8800.00	8800.00	8801.00	270.07	19.67	19.67	259.90	219.85	6.49	
8900.00	8900.00	8901.00	270.07	19.90	19.90	259.90	219.40	6.42	
9000.00	9000.00	9001.00	270.07	20.12	20.12	259.90	218.95	6.35	
9100.00	9100.00	9101.00	270.07	20.35	20.35	259.90	218.50	6.28	
9200.00	9200.00	9201.00	270.07	20.57	20.57	259.90	218.05	6.21	
9300.00	9300.00	9301.00	270.07	20.80	20.80	259.90	217.60	6.14	
9400.00	9400.00	9401.00	270.07	21.02	21.02	259.90	217.15	6.08	
9500.00	9500.00	9501.00	270.07	21.25	21.25	259.90	216.70	6.02	
9600.00	9599.48	9600.58	270.67	21.47	21.35	259.94	216.33	5.96	
9700.00	9692.34	9695.61	274.94	21.66	21.11	261.13	217.16	5.94	
9800.00	9770.28	9780.14	281.91	21.85	20.49	267.66	223.47	6.06	
9900.00	9830.79	9851.52	289.58	21.98	19.70	285.05	240.99	6.47	
10000.00	9875.83	9910.14	296.52	22.13	18.99	316.80	273.63	7.34	
10100.00	9908.89	9957.87	307.03	22.28	18.34	362.85	320.93	8.66	
10200.00	9936.56	10002.52	316.56	22.42	17.71	413.95	373.33	10.19	
10300.00	9961.24	10047.96	323.68	22.57	17.12	461.90	422.74	11.79	
10400.00	9982.42	10093.94	328.77	22.76	16.50	503.92	465.84	13.23	
10500.00	9999.69	10140.29	332.32	22.95	16.03	538.28	501.24	14.54	
10600.00	10012.78	10186.89	334.71	23.19	15.64	563.84	527.52	15.53	
10700.00	10021.47	10233.65	336.20	23.43	15.36	579.89	544.15	16.23	
10800.00	10025.63	10280.50	336.94	23.70	15.23	585.97	550.35	16.45	
10900.00	10025.88	10357.62	337.39	24.21	15.35	584.18	548.30	16.28	

5D Anti-Collision Report

Secondary Well : PLU/CXV/JV/Los Medanos #002H (p) (TVD Relative to Kelly Bushing (Primary)) ; All Azimuth Relative to GRID NORTH)									Risk
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	CC (US ft)	ES (US ft)	SF	
11000.00	10025.66	10457.41	337.98	24.95	15.52	581.92	545.63	16.04	
11100.00	10025.45	10557.20	338.58	25.80	15.72	579.72	542.95	15.77	
11200.00	10025.23	10656.99	339.19	26.76	15.95	577.59	540.27	15.48	
11300.00	10025.01	10756.78	339.79	27.79	16.21	575.52	537.61	15.18	
11400.00	10024.80	10856.57	340.41	28.91	16.50	573.52	534.96	14.87	
11500.00	10024.58	10956.36	341.02	30.09	16.82	571.59	532.33	14.56	
11600.00	10024.36	11056.15	341.64	31.34	17.15	569.72	529.75	14.25	
11700.00	10024.15	11155.94	342.27	32.64	17.52	567.92	527.20	13.95	
11800.00	10023.93	11255.73	342.90	33.99	17.90	566.18	524.71	13.65	
11900.00	10023.71	11355.52	343.53	35.39	18.30	564.52	522.24	13.35	
12000.00	10023.50	11455.32	344.17	36.82	18.71	562.93	519.83	13.06	
12100.00	10023.28	11555.11	344.81	38.28	19.14	561.40	517.48	12.78	
12200.00	10023.06	11654.90	345.45	39.78	19.61	559.95	515.21	12.52	
12300.00	10022.85	11754.69	346.10	41.30	20.12	558.57	513.01	12.26	
12400.00	10022.63	11854.48	346.75	42.84	20.64	557.26	510.84	12.01	
12500.00	10022.41	11954.27	347.40	44.41	21.13	556.02	508.75	11.76	
12600.00	10022.20	12054.06	348.06	45.99	21.65	554.85	506.70	11.52	
12700.00	10021.98	12153.85	348.71	47.59	22.19	553.76	504.88	11.33	
12800.00	10021.76	12253.64	349.38	49.21	22.70	552.74	502.90	11.09	
12900.00	10021.55	12353.43	350.04	50.85	23.26	551.80	501.23	10.91	
13000.00	10021.33	12453.22	350.70	52.49	23.84	550.93	499.37	10.69	
13100.00	10021.11	12553.01	351.37	54.15	24.41	550.13	497.57	10.47	
13200.00	10020.89	12652.80	352.04	55.81	25.02	549.41	496.03	10.29	
13300.00	10020.68	12752.59	352.71	57.49	25.59	548.77	494.48	10.11	
13400.00	10020.46	12852.38	353.38	59.18	26.16	548.20	493.04	9.94	
13500.00	10020.24	12952.17	354.06	60.87	26.74	547.71	491.53	9.75	
13600.00	10020.03	13051.96	354.73	62.57	27.32	547.29	490.11	9.57	
13700.00	10019.81	13151.75	355.41	64.28	27.94	546.95	488.73	9.39	
13800.00	10019.59	13251.54	356.08	65.99	28.58	546.69	487.45	9.23	
13900.00	10019.38	13351.33	356.76	67.71	29.22	546.50	486.25	9.07	
14000.00	10019.16	13451.12	357.44	69.44	29.86	546.39	485.14	8.92	
14100.00	10018.94	13550.91	358.11	71.17	30.50	546.35	483.96	8.76	
14200.00	10018.73	13650.70	358.79	72.90	31.14	546.40	482.69	8.58	
14300.00	10018.51	13750.49	359.47	74.64	31.79	546.51	481.51	8.41	
14400.00	10018.29	13850.28	0.14	76.39	32.44	546.71	480.41	8.25	
14500.00	10018.08	13950.07	0.82	78.14	33.10	546.98	479.38	8.09	
14600.00	10017.86	14049.86	1.50	79.89	33.75	547.33	478.44	7.95	
14700.00	10017.64	14149.65	2.17	81.64	34.41	547.76	477.53	7.80	
14800.00	10017.43	14249.44	2.84	83.40	35.07	548.26	476.40	7.63	
14900.00	10017.21	14349.23	3.52	85.16	35.74	548.83	475.34	7.47	
14995.74	10017.00	14444.78	4.16	86.84	36.38	549.46	474.40	7.32	

**Weatherford**

Weatherford Drilling Services

GeoDec4 v2.0.0.3

Report Date: June 16, 2014
Job Number: _____
Customer: BOPCO
Well Name: Poker Lake Unit CXV JV Los Medanos #004H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM Nad27 NME
Block: _____
Engineer: RWJ

NAD27 / New Mexico East	NAD27
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1927	Datum: North American Datum 1927
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
EPSG: 32012	EPSG: 4267
North: 456824.90 US Survey Foot	Latitude: 32.254947 Degree
East: 653981.30 US Survey Foot	Longitude: -103.835231 Degree
Convergence: 0.27°	
Declination: 7.44°	
Total Correction: 7.17°	
Datum Transformation: none	

Geodetic Location WGS84

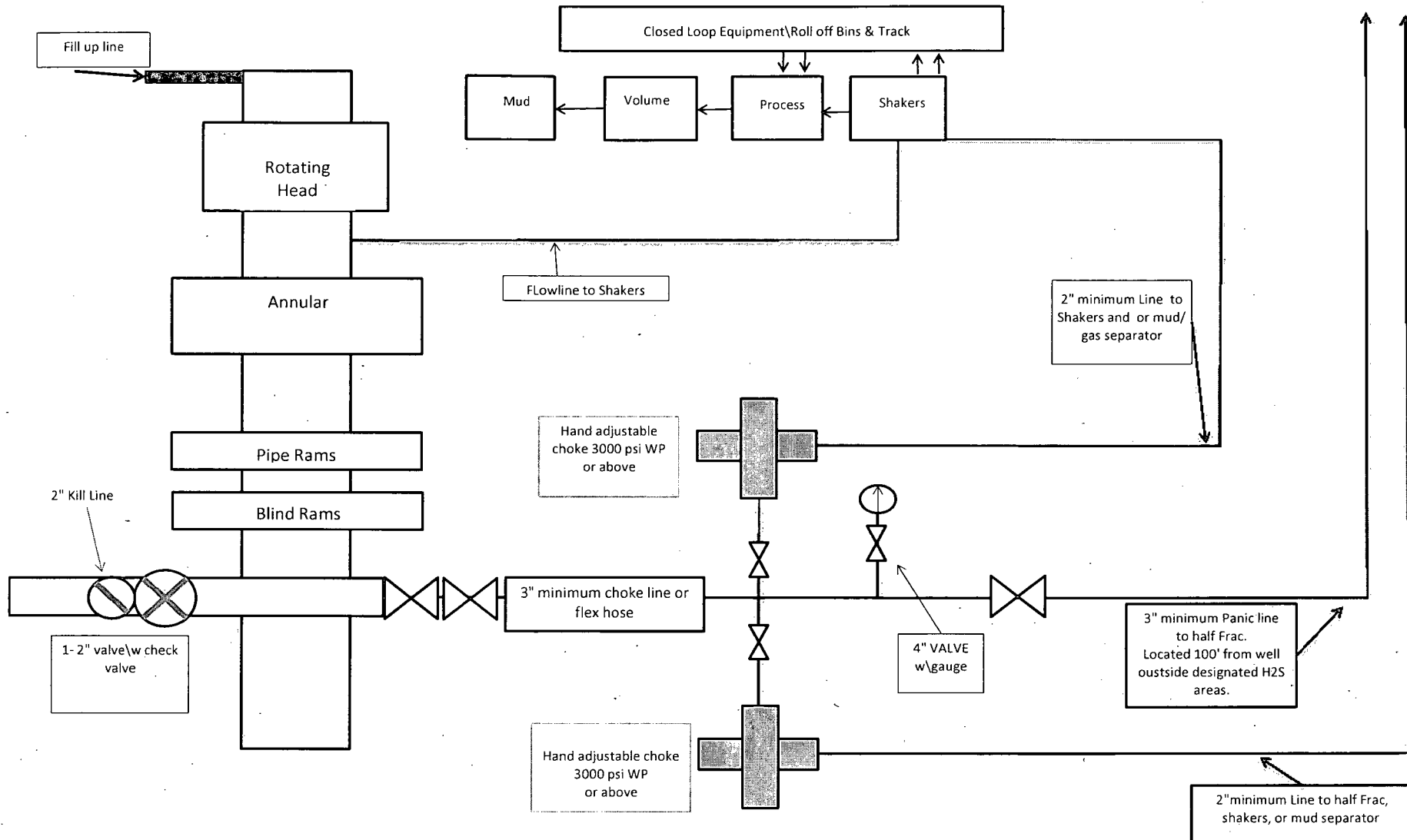
MSL Elevation = 0 m
Latitude = 32° 15' 17.81" N
Longitude = 103° 50' 06.83" W

Magnetic Declination = 7.44 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6587
Local Field Strength = 48281 nT	Magnetic Vector X = 23885 nT
Magnetic Dip = 60.07 deg	Magnetic Vector Y = 3118 nT
Magnetic Model = bggm2013.bgs	Magnetic Vector Z = 41843 nT
Run Date = August 30, 2014	Magnetic Vector H = 24087 nT

Signed: _____ Date: _____

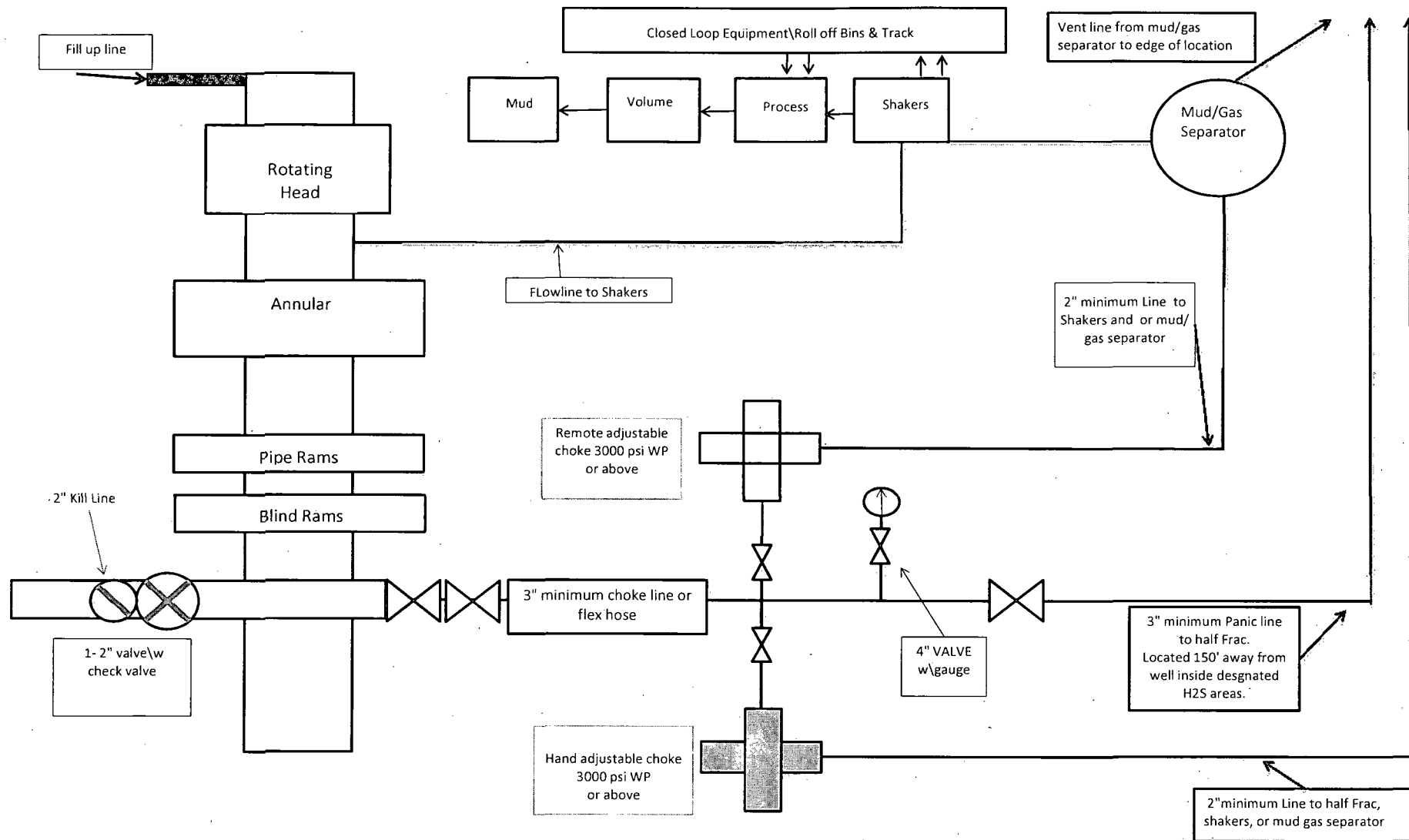
© 2013 Weatherford

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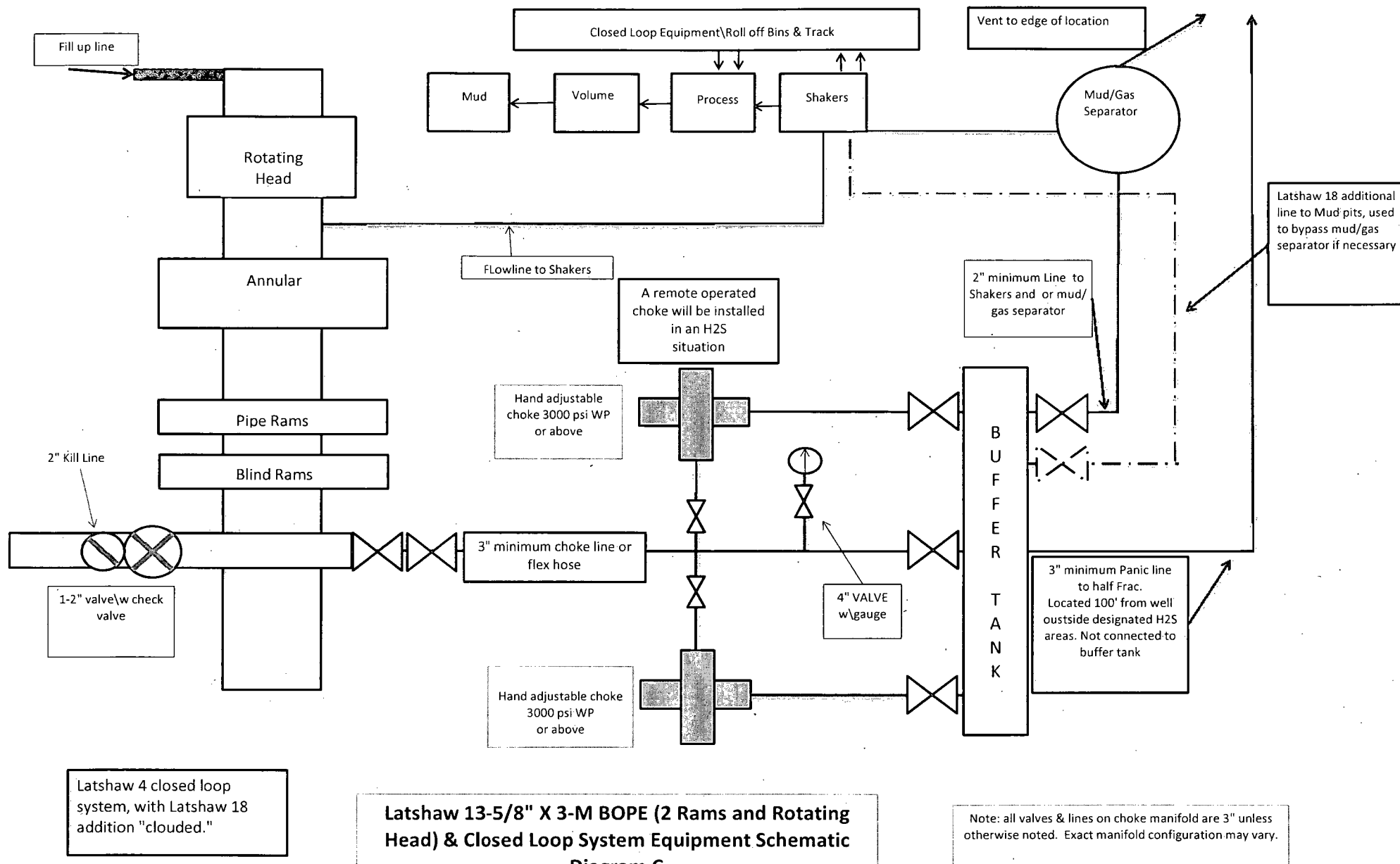
13-5/8" X 3-M BOPE (2 Rams and Rotating Head) & Closed Loop System Equipment Schematic Diagram A

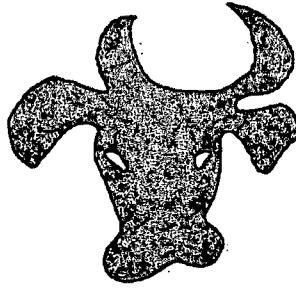
Note: all valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.



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

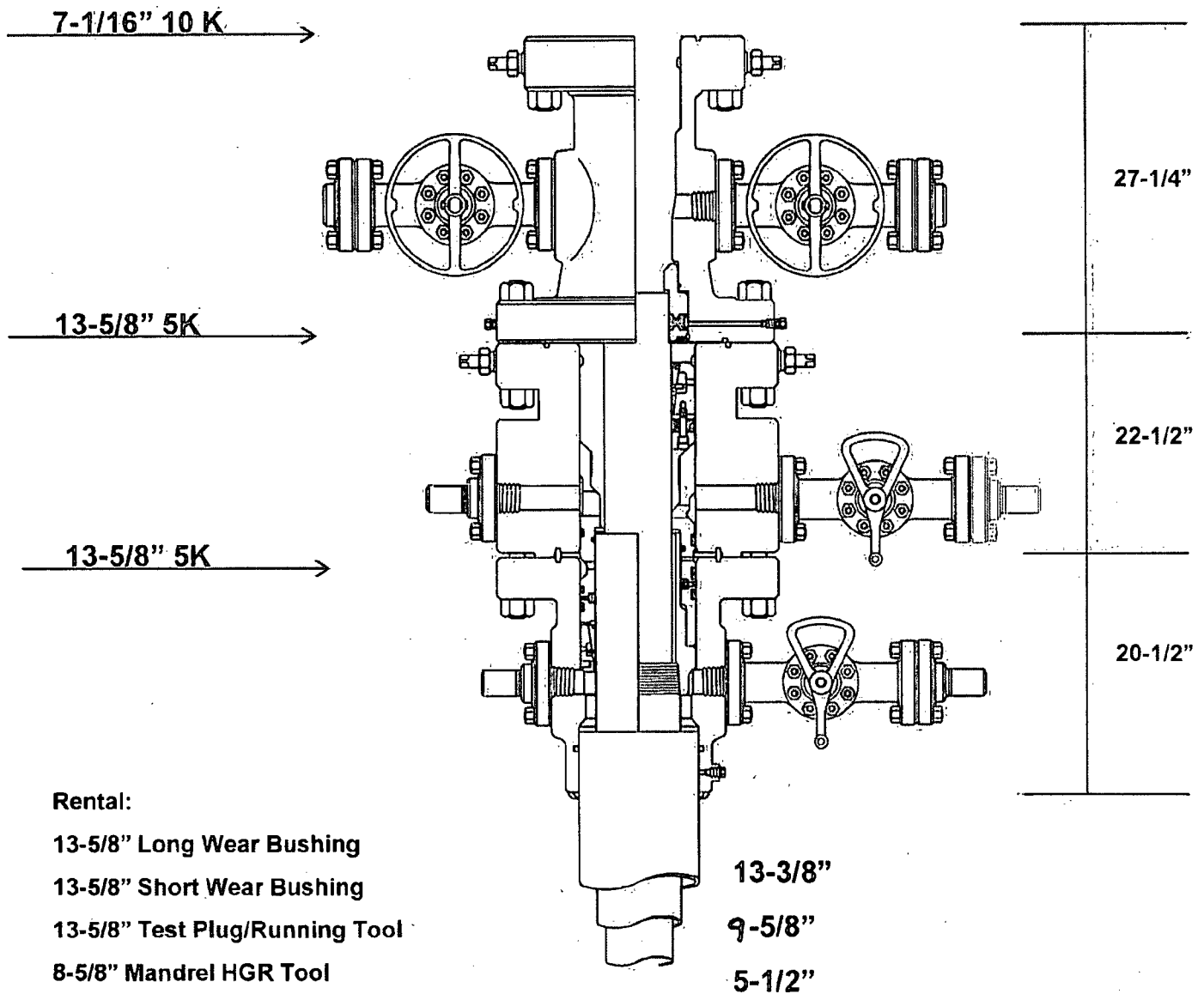
Note: all valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.





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





Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

April 4, 2012

Customer: Latshaw

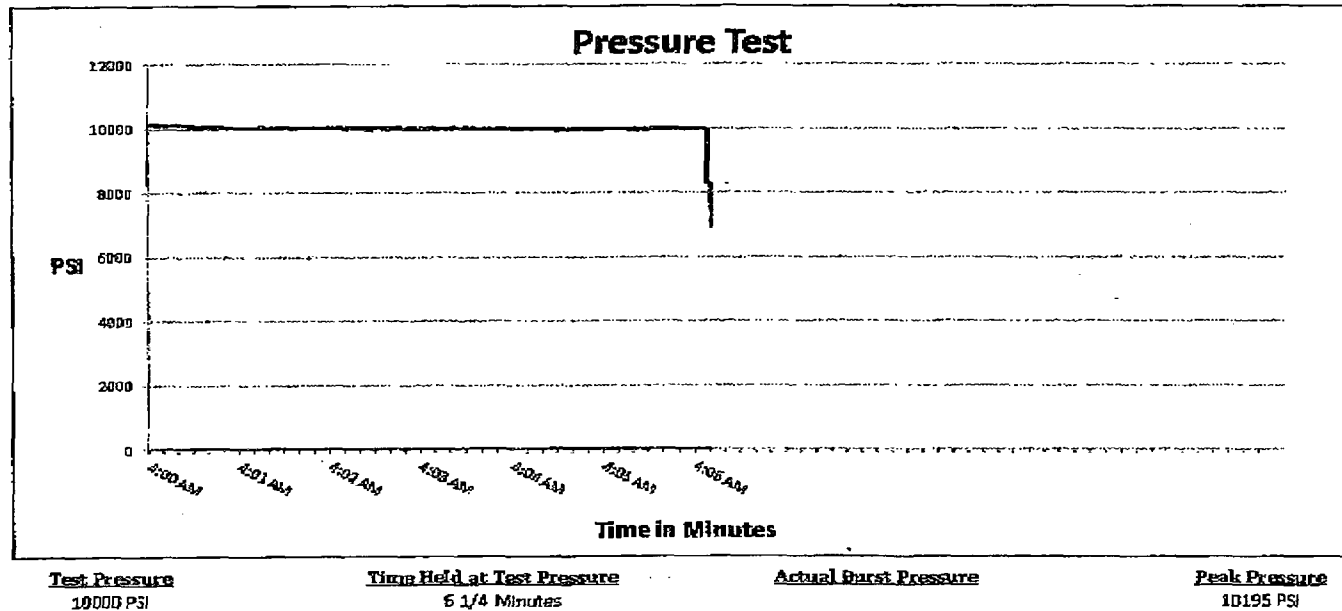
Pick Ticket #: 81610

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					
Hose assembly pressure tested with water at ambient temperature. <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; padding: 5px;">TIME HELD AT TEST PRESSURE 1 MIN.</td> <td style="width: 50%; border: none; padding: 5px;">ACTUAL BURST PRESSURE: 0 PSI</td> </tr> </table>				TIME HELD AT TEST PRESSURE 1 MIN.	ACTUAL BURST PRESSURE: 0 PSI
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		

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John Bemis
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

JamI Bailey
Division Director
Oil Conservation Division



June 23, 2014

BUREAU OF LAND MANAGEMENT
ATT: James S. Rutley
620 E Greene Street
Carlsbad, NM 88220

STATE LAND OFFICE
ATT: Stephen Wust
PO BOX 1148
Santa Fe, NM 87505

RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

OPERATOR: BOPCO, L.P.

LEASE NAME: Poker Lake Unit CVX JV Los Medanos #4H

PROPOSED LOCATION: SHL Lot N Sec 36 T23S R30E; 330' FSL 1940' FWL
BHL Lot C Sec 36 T23S R30E; 330' FNL 1940' FWL

PROPOSED DEPTH: TVD 10,017' MD 14,995'

Gentleman:

The application for permit to drill identified above has been filed with this office of the New Mexico Oil Conservation Division. Pursuant to the provisions of Oil Conservation Division Order R - 111 - P, please advise this office whether the location is within an established Life-of-Mine-Reserve are filed with and approved by your office. If not, please advise whether it is within the buffer zone established by the order.

Thank you for your assistance. Please Return as soon as possible.

Very truly yours,

OIL CONSERVATION DIVISION

R. Dade
Randy Dade
Supervisor, District II

RESONSE:

The above referenced location is in LMR (2014 year) ----- Yes _____ No ☒
The above referenced location is within the Buffer Zone ----- Yes _____ No ☒

Signed

Printed Signature

Representing

JAMES S. RUTLEY
US - BLM - NM - CPO - SOLIAS - RUTLEY

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

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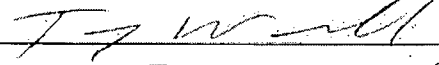
OIL CONSERVATION DIVISION


Randy Dade
Supervisor, District II

RESONSE:

The above referenced location is in LMR ~~2013~~ year) -----Yes _____ No ☒

The above referenced location is within the Buffer Zone -----Yes _____ No ☒ *SDW*

Signed  8-23-2014

Printed Signature Terry Wanell

Representing OGMD