

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-0101 Fax (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1293 Fax (505) 748-0780

DISTRICT III
1000 Rio Grande Rd., Aztec, NM 87410
Phone (505) 334-8178 Fax (505) 334-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3480 Fax (505) 476-8482

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-42619	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 12H
GRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3409'

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	1980	WEST	EDDY

Bottom Hole Location If Different From Surface

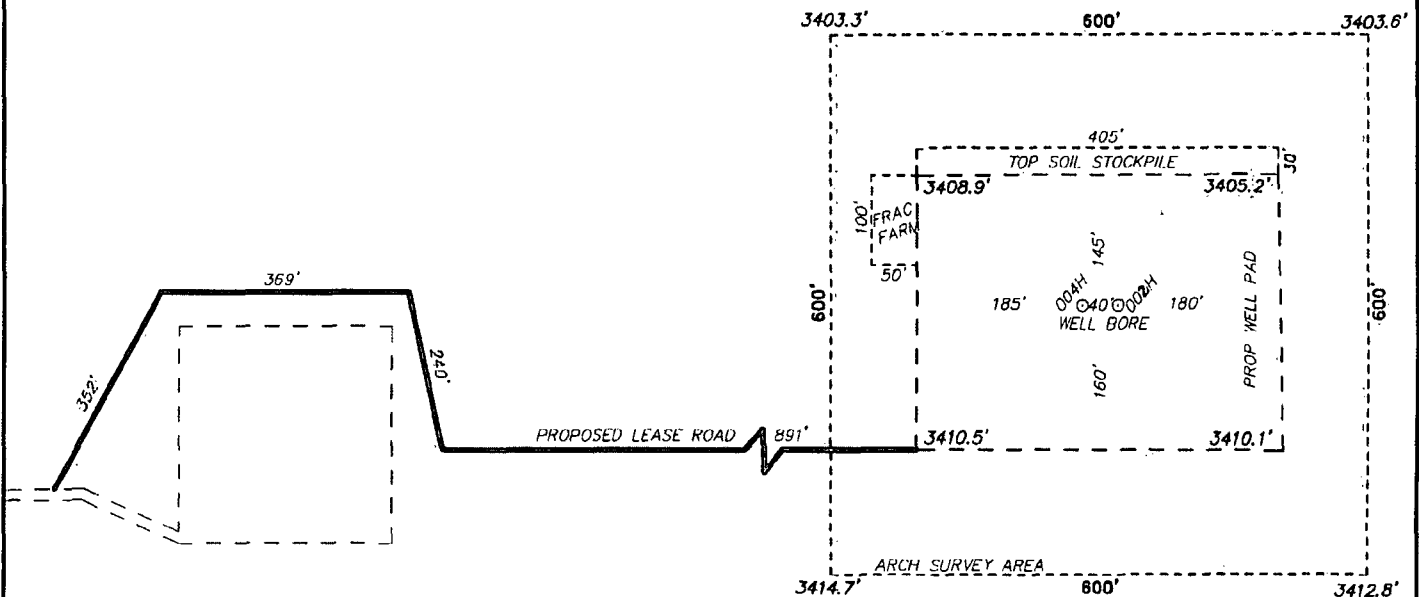
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	36	23 S	30 E		330	NORTH	1980	WEST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.						

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

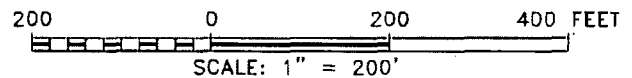
N 481734.3 E 651707.7 NAD 27	1980'	3403.3'	3403.6'	3412.8'	1980'	N 481734.3 E 651707.7 NAD 27	PROPOSED BOTTOM HOLE LOCATION Lat - N 32°18'03.58" Long - W 103°50'09.97" NADSPCE - N 481449.1 E 653689.8 (NAD-27)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased 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>8/28/14</u> Printed Name: <u>Whitney McKee</u> Email Address: <u>wbmckee@basspet.com</u>
N 459123.9 E 651729.8 NAD 27						N 459123.9 E 651729.8 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>8/28/14</u> Signature: <u>[Signature]</u> Professional Surveyor Certificate No. <u>7977</u> BASIN SURVEYS	
N 458460.8 E 651743.8 NAD 27						N 458460.8 E 651743.8 NAD 27	SURFACE LOCATION Lat - N 32°15'17.82" Long - W 103°50'09.86" NADSPCE - N 458825.2 E 653721.4 (NAD-27)	SCALE: 1" = 1000' WO Num: 30541

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 002H
ELEV. - 3409'
Lat - N 32°15'17.82"
Long - W 103°50'09.86"
NMSPCE- N 456825.2
E 653721.4
(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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1120 N. West County Rd. (575) 392-2206 - Fax
Hobbs, New Mexico 88241 basin-surveys.com

BOPCO, L.P.

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

THE PLU CVX JV BS LOS MEDANOS 002H LOCATED 330' FROM

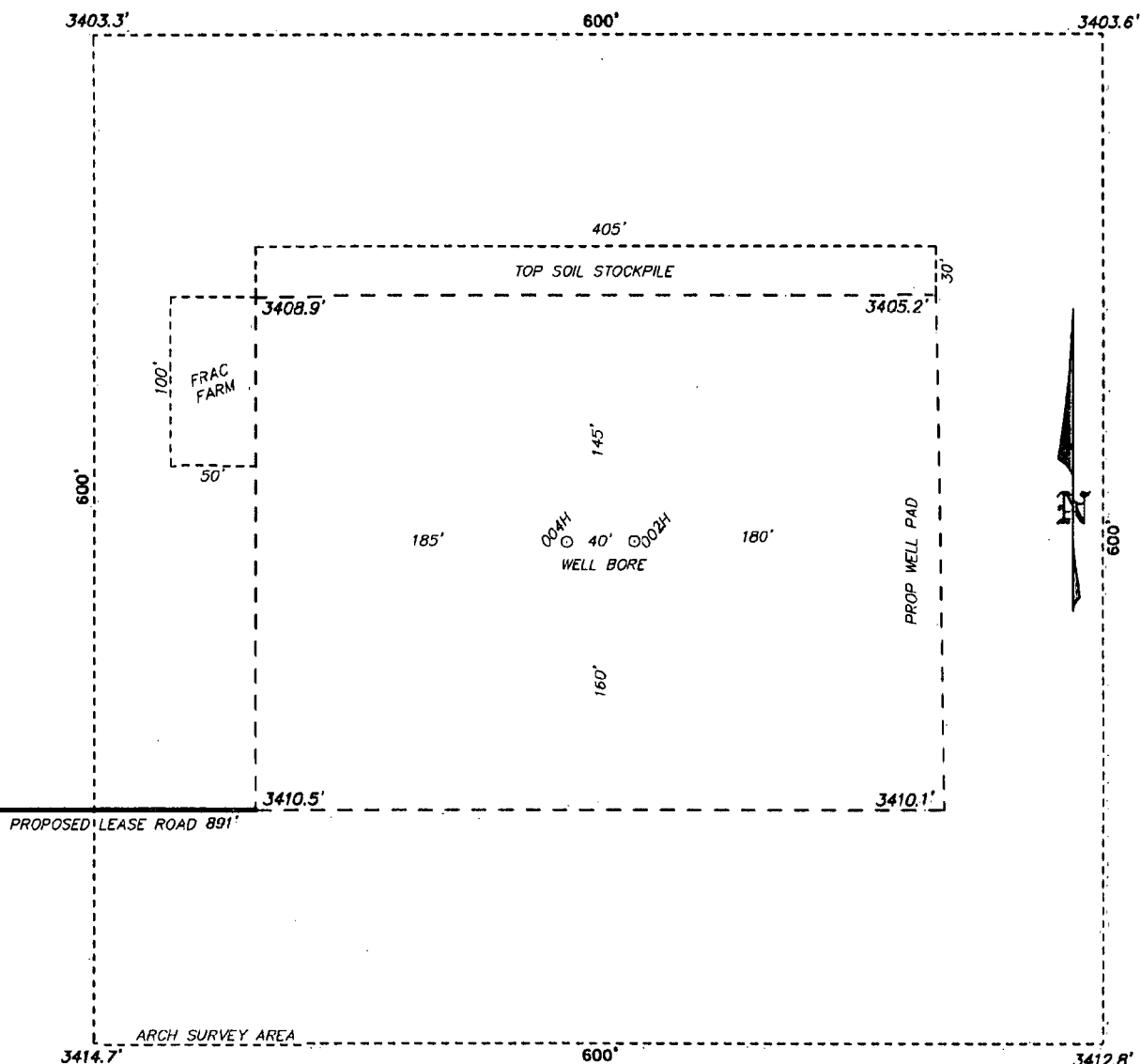
THE SOUTH LINE AND 1980' FROM THE WEST LINE OF

SECTION 36, TOWNSHIP 23 SOUTH, RANGE 30 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

W.O. Number: 30541 Drawn By: J. SMALL Date: 06-10-2014 Survey Date: 06-05-2014 Sheet 1 of 1 Sheets

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



100 0 100 200 FEET
SCALE: 1" = 100'

BOPCO, L.P.

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

THE PLU CVX JV BS LOS MEDANOS 002H LOCATED 330' FROM
THE SOUTH LINE AND 1980' FROM THE WEST LINE OF
SECTION 36, TOWNSHIP 23 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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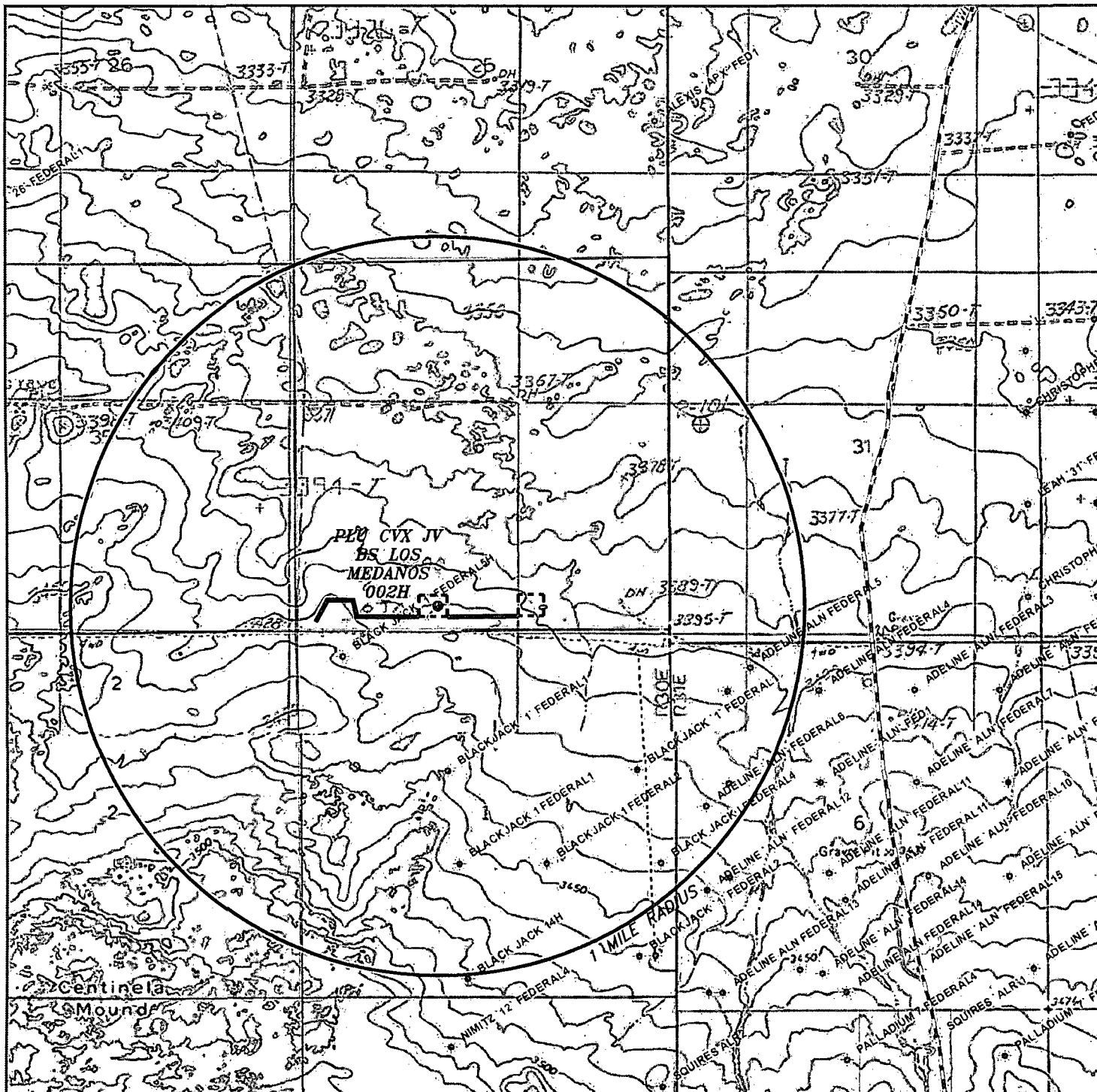
W.O. Number: 30541

Drawn By: J. SMALL

Date: 05-12-2014

Survey Date: 06-05-2014

Sheet 1 of 1 Sheets



PLU CVX JV BS LOS MEDANOS 002H

Located 330' FSL and 1980' 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'

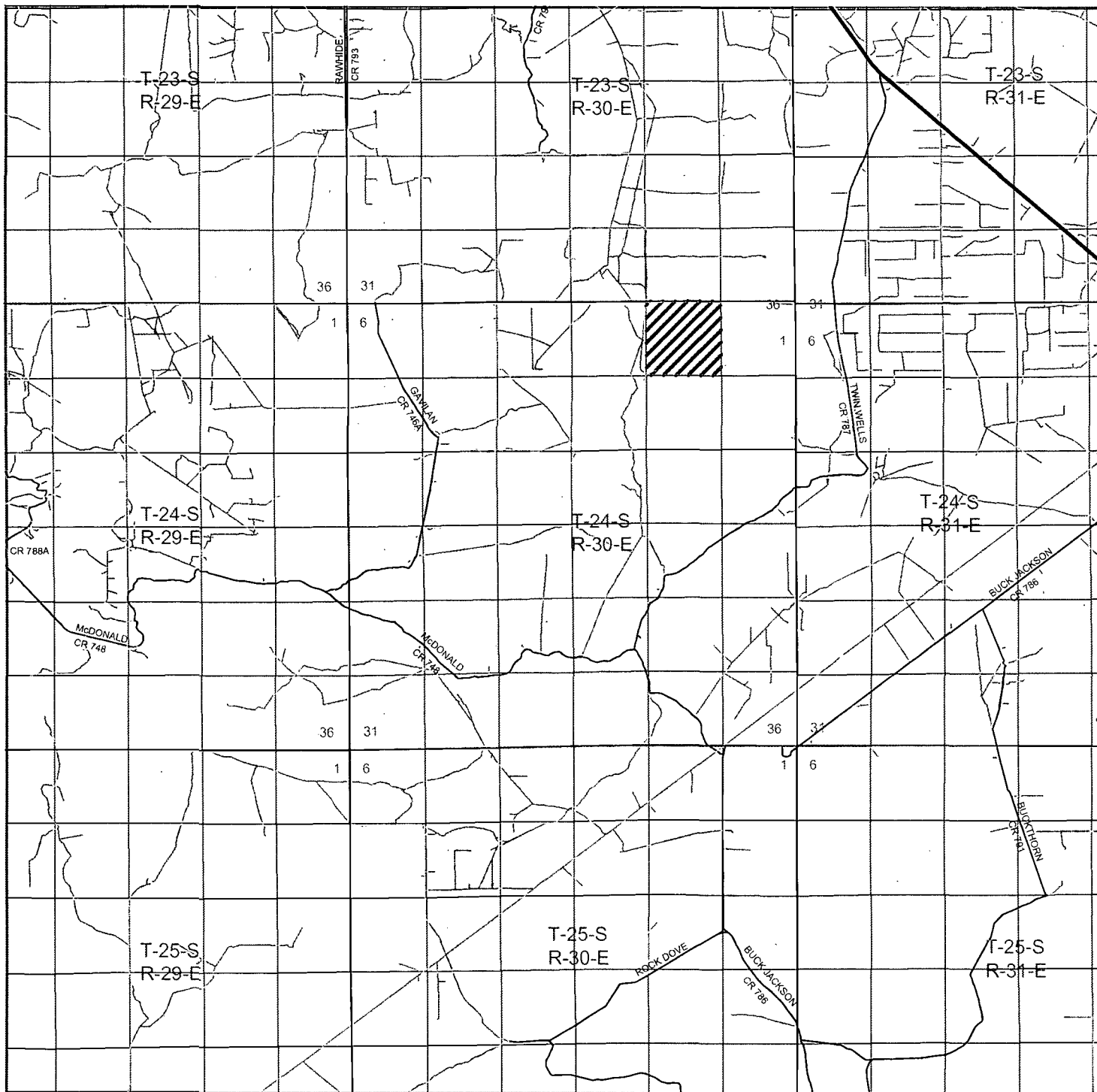
W.O. Number: JMS 30541

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 002H

Located 330' FSL and 1980' FWL

Section 36, Township 23 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

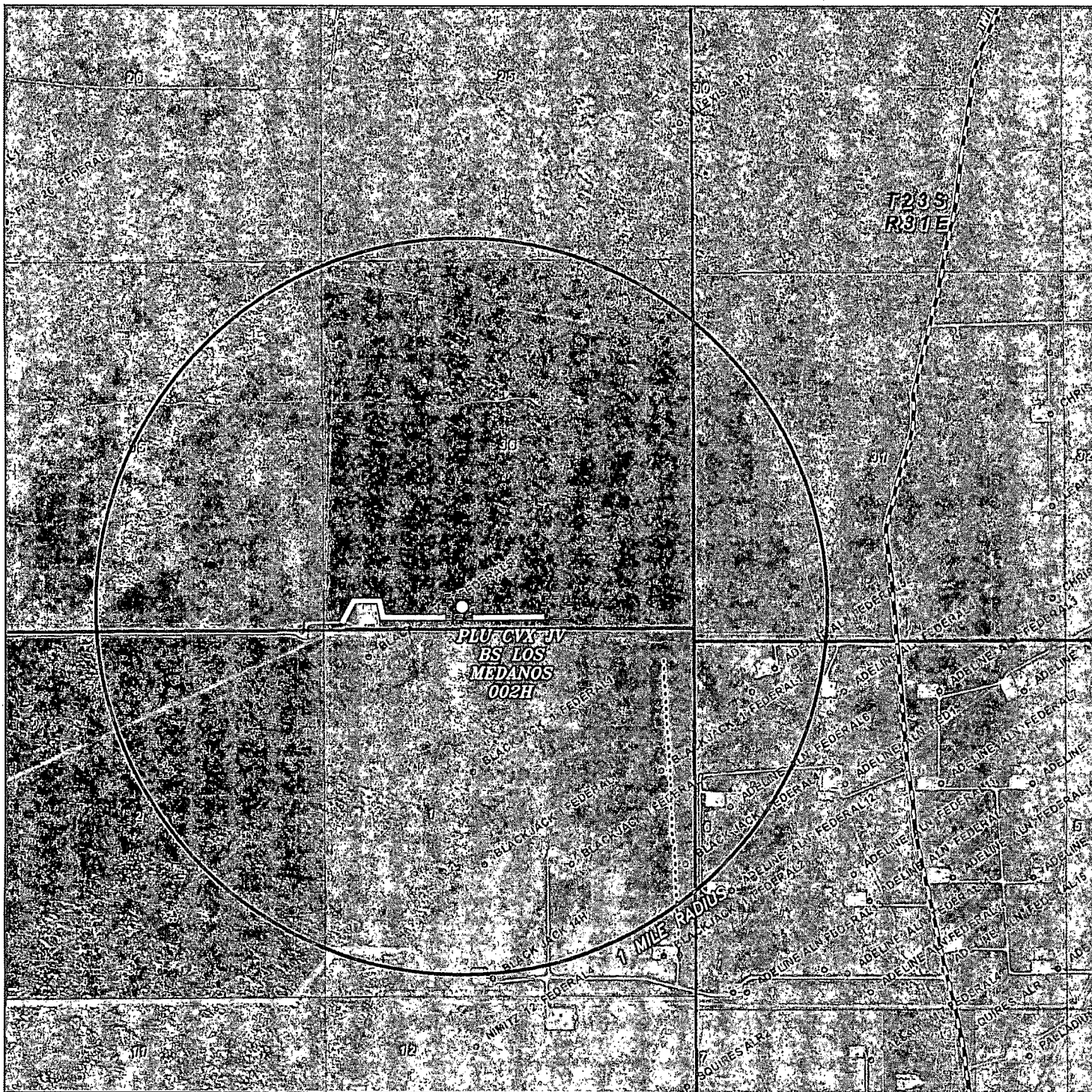
W.O. Number: JMS 30541

Survey Date: 06-05-2014

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



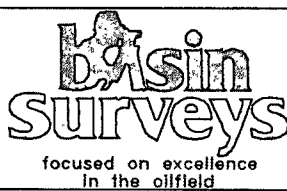
BOPCO, L.P.



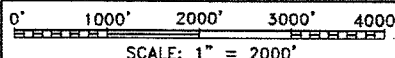
PLU CVX JV BS LOS MEDANOS 002H

Located 330' FSL and 1980' FWL

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



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W.O. Number: JMS 30541

Survey Date: 06-05-2014

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



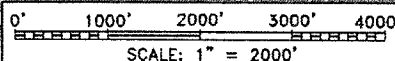
BOPCO, L.P.

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

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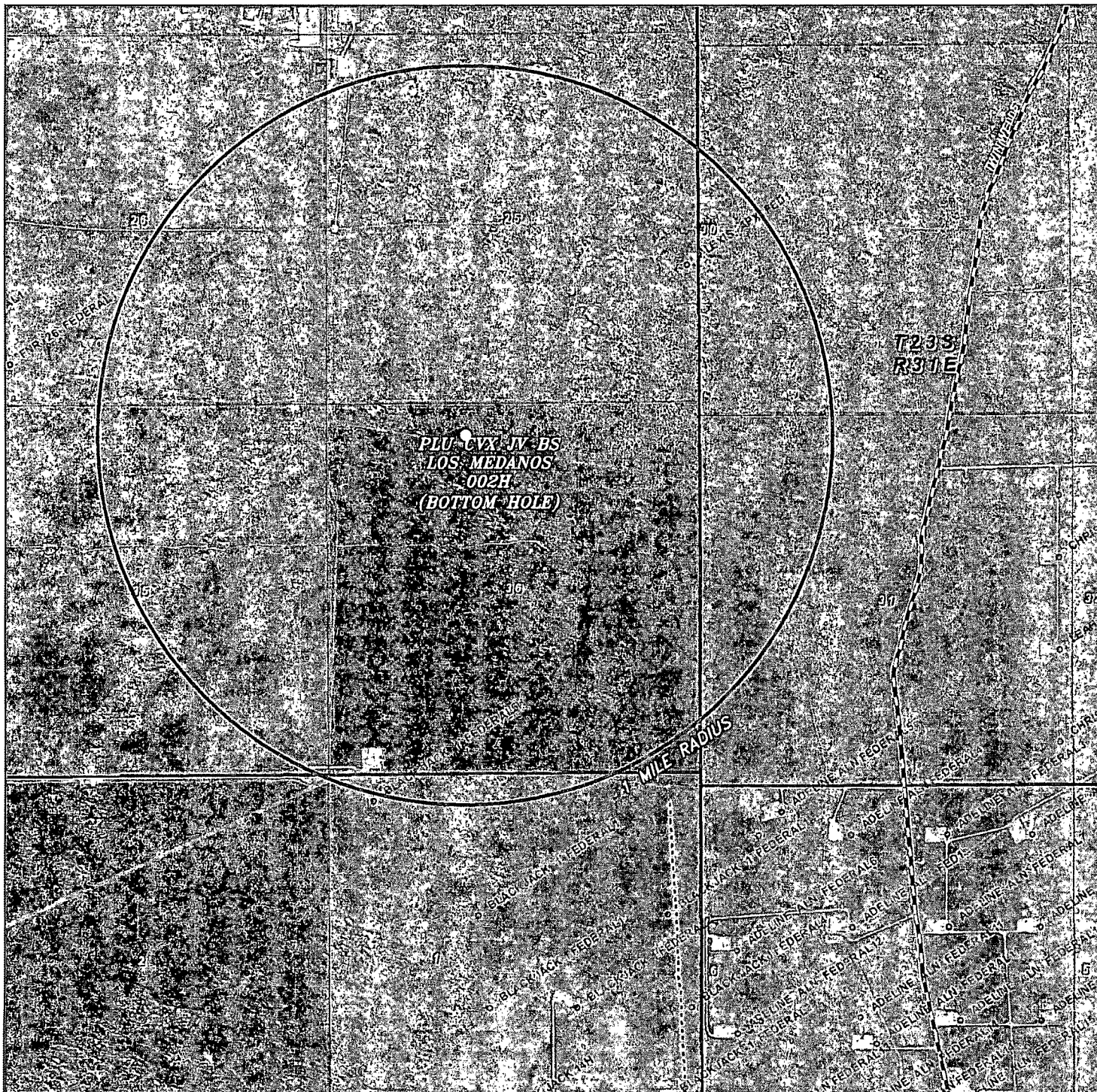
W.O. Number: JMS 30541

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 002H (BOTTOM HOLE)

Located 330' FNL and 1980' 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 30541

Survey Date: 06-05-2014

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



BOPCO, L.P.

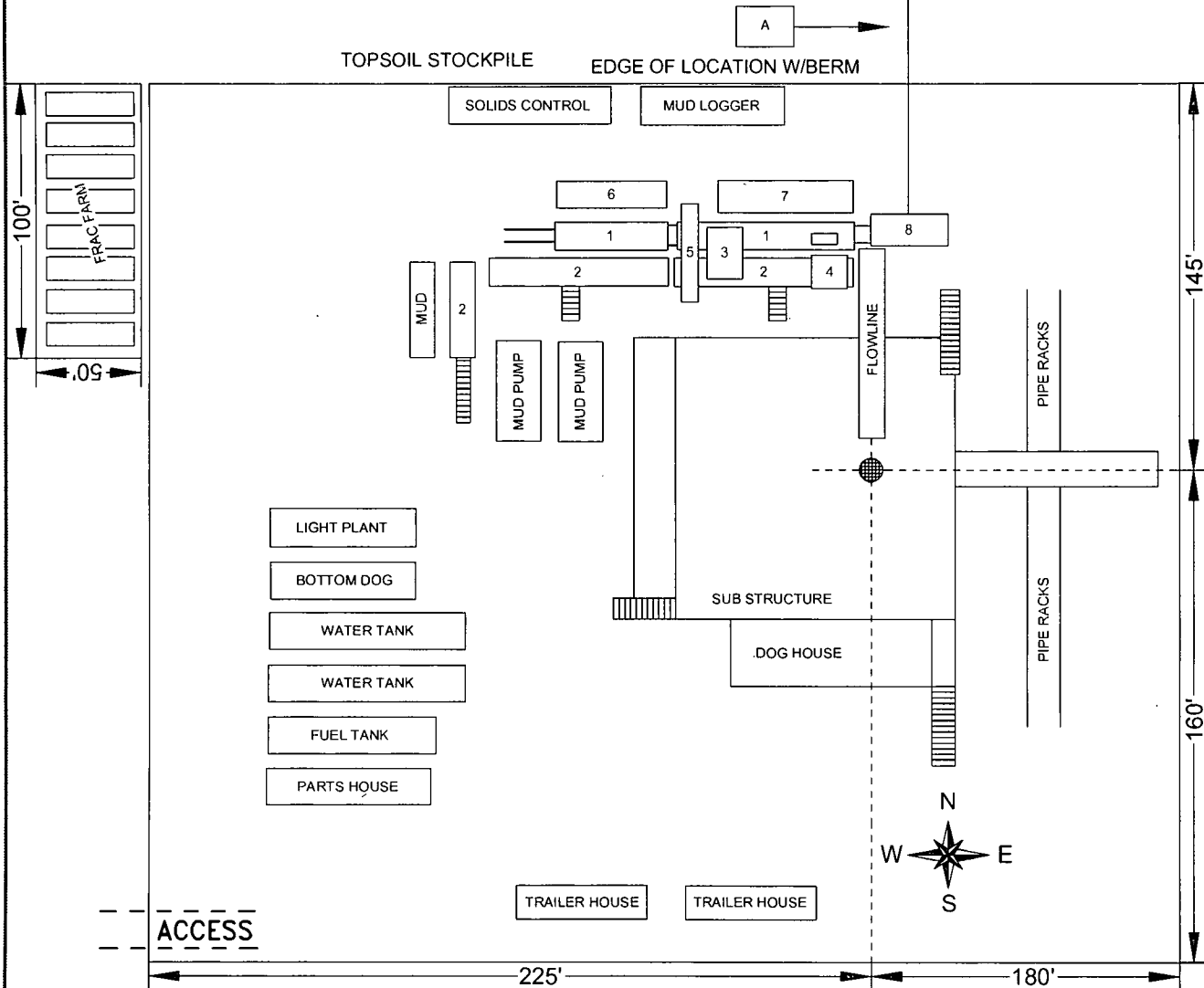
EXHIBIT "D"

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 002H

Located 330' FSL and 1980' FWL

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

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SCALE: NONE

W.O. Number: JMS 30541

Survey Date: 06-05-2014



BOPCO, L.P.

BOPCO, L.P.
Poker Lake Unit
CXV JV Los Medanos #002H
Eddy Co, NM



Plan Data for PLU CXV JV Los Medanos #002H

Plan Point Information:
 Dogleg Severity Unit: 7109.00ft Position offsets from Slot centre
 MD Inc Az TVD N/W-S E/W-N Northing Easting VSec DLS
 (USft) (") (") (USft) (USft) (USft) (USft) (USft) (DLSU)
 0.00 0.00 0.00 0.00 0.00 0.00 456825.20 553721.40 0.00 0.00
 5549.54 0.00 0.00 5549.54 0.00 0.00 456825.20 553721.40 0.00 0.00
 10300.58 90.12 359.61 10027.00 476.46 -3.27 457303.59 553718.13 474.56 12.00
 14446.09 90.12 359.61 10018.00 4623.90 -31.50 461449.10 553695.80 4424.01 0.00

Plan Data for PLU CXV JV Los Medanos #002H

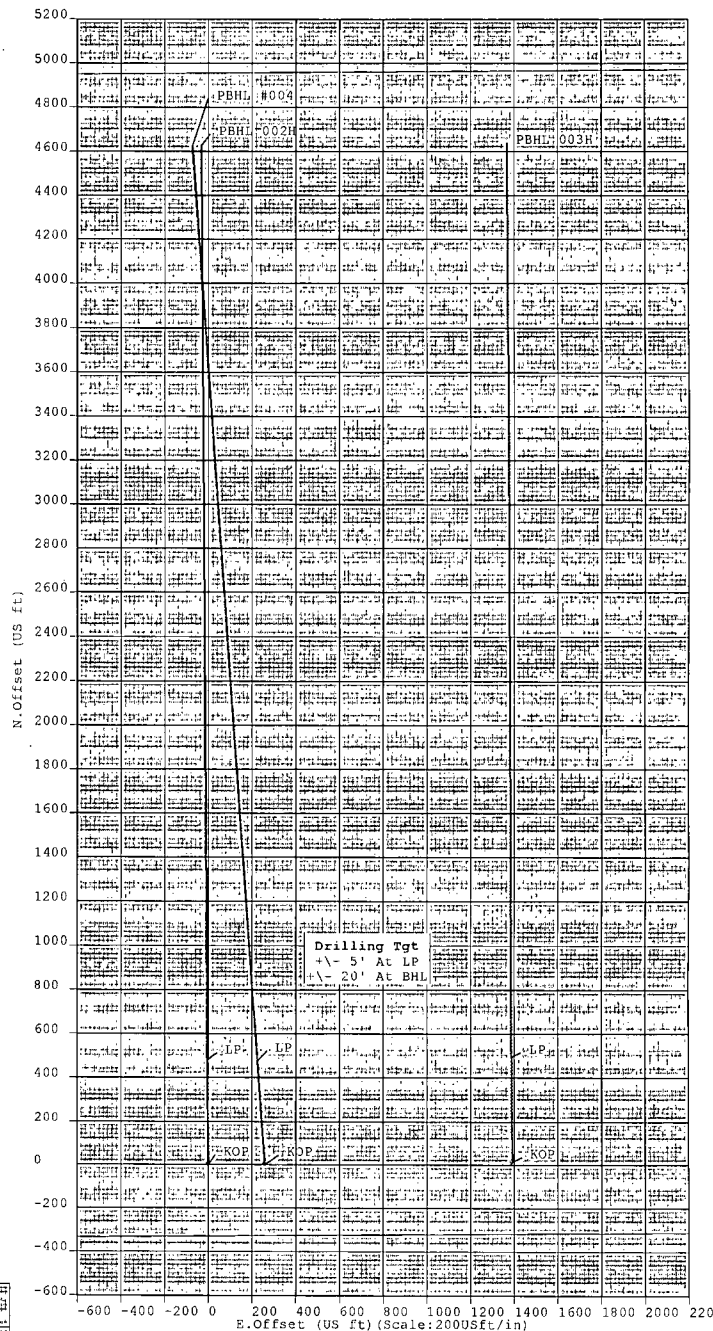
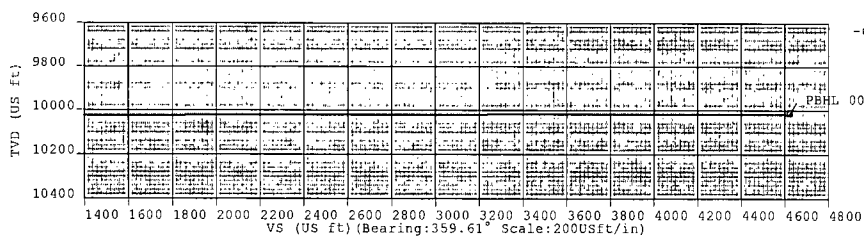
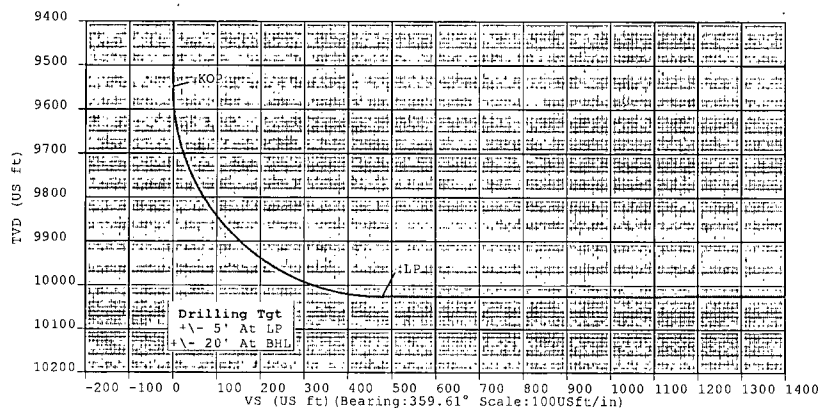
Target Set Information:
 Name: PLU CXV JV Los Medanos #002H
 Position offsets from Slot centre
 Name TVD Elevation N/W-S E/W-N Northing Easting Shape Comment
 (USft) (USft) (USft) (USft) (USft) (USft)
 PBHL 10018.00 -5897.00 4623.90 -31.50 461449.10 553695.80 Cuboid

Plan Data for PLU CXV JV Los Medanos #002H

Slot: Poker Lake Unit CXV JV Los Medanos #002H
 Position:
 Offset from Slot centre
 N/W-S: -0.00USft Northing: 155925.20USft Latitude: 32°15'17.8"
 E/W-N: 0.00USft Easting: 553721.40USft Longitude: -103°50'9.0"
 Elevation Above VED: 3409.00USft

PLU CXV JV Los Medanos #002H
 PLU CXV JV Los Medanos #003H
 PLU CXV JV Los Medanos #004H

KB: 3431
 GR: 3409



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 #002H***Well Name:** *PLU CXV JV Los Medanos #002H***Plan:** *P1:V1*

16 June 2014



PLU CXV JV Los Medanos #002H

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 #002H	Units : US ft	North Reference : Grid	Convergence Angle : 0.27	
	Position	Northing : 456825.20 US ft	Latitude : 32° 15' 17.82"	
		Easting : 653721.40 US ft	Longitude : -103° 50' 9.86"	
	Elevation above Mean Sea Level: 3409.00 US ft			
Comment :				
Slot Name Poker Lake Unit CXV JV Los Medanos #002H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 456825.20 US ft	Latitude : 32° 15' 17.82"	
	+E / -W : 0.00 US ft	Easting : 653721.40 US ft	Longitude : -103° 50' 9.86"	
	Elevation above Mean Sea Level : 3409.00 US ft			
Comment :				
Well Name PLU CXV JV Los Medanos #002H	Type : Main well		UWI :	Plan : P1:V1
	Rig Height <i>Kelly Bushing</i> : 22.00 US ft		Comment :	
	Relative to Mean Sea Level: 3431.00 US ft			
	Closure Distance : 4624.01 US ft		Closure Azimuth : 359.608°	
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft	Az : 359.61°
	Magnetic Parameters			
	Model : BGGM	Field Strength : 48285.2nT	Dec : 7.49°	Dip : 60.09° Date : 15/Jul/2014

Target Set	
Name : PLU CXV JV Los	Number of Targets : 1
Medanos #002H	

Comment :

Target Name: PBHL Shape: Cuboid	Position (Relative to Slot centre)		
	+N / -S : 4623.90 US ft	Northing : 461449.10 US ft	Latitude : 32° 16' 3.58"
	+E / -W : -31.60 US ft	Easting : 653689.80 US ft	Longitude : -103° 50' 9.97"
	TVD (Kelly Bushing) : 10018.00 US ft		
Orientation Azimuth : 0.00°		Inclination : 0.00°	
Dimensions Length : 20.00 US ft		Breadth : 20.00 US ft Height : 20.00 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	
9549.54	0.00	0.00	9549.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
10300.58	90.12	359.61	10027.00	478.49	-3.27	478.50	12.00	12.00	0.00	359.61	LP
14446.09	90.12	359.61	10018.00	4623.90	-31.60	4624.01	0.00	0.00	0.00	0.00	PBHL 002H

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
9500.00	0.00	0.00	9500.00	0.00	0.00	0.00	0.00	456825.20	653721.40		
9549.54	0.00	0.00	9549.54	0.00	0.00	0.00	0.00	456825.20	653721.40		KOP
9600.00	6.06	359.61	9599.91	2.66	-0.02	2.66	12.00	456827.86	653721.38		
9700.00	18.06	359.61	9697.52	23.51	-0.16	23.51	12.00	456848.71	653721.24		
9729.21	21.56	359.61	9725.00	33.41	-0.23	33.41	12.00	456858.61	653721.17		2nd BS Sand
9800.00	30.06	359.61	9788.67	64.20	-0.44	64.20	12.00	456889.40	653720.96		
9900.00	42.06	359.61	9869.37	122.94	-0.84	122.95	12.00	456948.14	653720.56		
10000.00	54.06	359.61	9936.09	197.19	-1.35	197.19	12.00	457022.39	653720.05		
10100.00	66.06	359.61	9985.91	283.68	-1.94	283.68	12.00	457108.88	653719.46		
10200.00	78.06	359.61	10016.67	378.64	-2.59	378.64	12.00	457203.84	653718.81		
10300.00	90.06	359.61	10027.00	477.91	-3.27	477.92	12.00	457303.11	653718.13		
10300.58	90.12	359.61	10027.00	478.49	-3.27	478.50	12.00	457303.69	653718.13		LP
10400.00	90.12	359.61	10026.79	577.91	-3.95	577.92	0.00	457403.11	653717.45		
10500.00	90.12	359.61	10026.57	677.91	-4.63	677.92	0.00	457503.11	653716.77		
10600.00	90.12	359.61	10026.35	777.91	-5.32	777.92	0.00	457603.11	653716.08		
10700.00	90.12	359.61	10026.14	877.90	-6.00	877.92	0.00	457703.10	653715.40		
10800.00	90.12	359.61	10025.92	977.90	-6.68	977.92	0.00	457803.10	653714.72		
10900.00	90.12	359.61	10025.70	1077.90	-7.37	1077.92	0.00	457903.10	653714.03		
11000.00	90.12	359.61	10025.48	1177.90	-8.05	1177.92	0.00	458003.10	653713.35		
11100.00	90.12	359.61	10025.27	1277.89	-8.73	1277.92	0.00	458103.09	653712.67		
11200.00	90.12	359.61	10025.05	1377.89	-9.42	1377.92	0.00	458203.09	653711.98		
11300.00	90.12	359.61	10024.83	1477.89	-10.10	1477.92	0.00	458303.09	653711.30		
11400.00	90.12	359.61	10024.62	1577.89	-10.78	1577.92	0.00	458403.09	653710.62		
11500.00	90.12	359.61	10024.40	1677.88	-11.47	1677.92	0.00	458503.08	653709.93		
11600.00	90.12	359.61	10024.18	1777.88	-12.15	1777.92	0.00	458603.08	653709.25		
11700.00	90.12	359.61	10023.96	1877.88	-12.83	1877.92	0.00	458703.08	653708.57		
11800.00	90.12	359.61	10023.75	1977.88	-13.52	1977.92	0.00	458803.08	653707.88		
11900.00	90.12	359.61	10023.53	2077.87	-14.20	2077.92	0.00	458903.07	653707.20		
12000.00	90.12	359.61	10023.31	2177.87	-14.88	2177.92	0.00	459003.07	653706.52		
12100.00	90.12	359.61	10023.10	2277.87	-15.57	2277.92	0.00	459103.07	653705.83		
12200.00	90.12	359.61	10022.88	2377.86	-16.25	2377.92	0.00	459203.06	653705.15		
12300.00	90.12	359.61	10022.66	2477.86	-16.93	2477.92	0.00	459303.06	653704.47		
12400.00	90.12	359.61	10022.44	2577.86	-17.62	2577.92	0.00	459403.06	653703.78		
12500.00	90.12	359.61	10022.23	2677.86	-18.30	2677.92	0.00	459503.06	653703.10		
12600.00	90.12	359.61	10022.01	2777.85	-18.98	2777.92	0.00	459603.05	653702.42		
12700.00	90.12	359.61	10021.79	2877.85	-19.67	2877.92	0.00	459703.05	653701.73		
12800.00	90.12	359.61	10021.58	2977.85	-20.35	2977.92	0.00	459803.05	653701.05		
12900.00	90.12	359.61	10021.36	3077.85	-21.03	3077.92	0.00	459903.05	653700.37		
13000.00	90.12	359.61	10021.14	3177.84	-21.72	3177.92	0.00	460003.04	653699.68		
13100.00	90.12	359.61	10020.92	3277.84	-22.40	3277.92	0.00	460103.04	653699.00		
13200.00	90.12	359.61	10020.71	3377.84	-23.08	3377.92	0.00	460203.04	653698.32		
13300.00	90.12	359.61	10020.49	3477.84	-23.77	3477.92	0.00	460303.04	653697.63		
13400.00	90.12	359.61	10020.27	3577.83	-24.45	3577.92	0.00	460403.03	653696.95		
13500.00	90.12	359.61	10020.05	3677.83	-25.13	3677.92	0.00	460503.03	653696.27		
13600.00	90.12	359.61	10019.84	3777.83	-25.82	3777.92	0.00	460603.03	653695.58		
13700.00	90.12	359.61	10019.62	3877.83	-26.50	3877.92	0.00	460703.03	653694.90		
13800.00	90.12	359.61	10019.40	3977.82	-27.18	3977.92	0.00	460803.02	653694.22		
13900.00	90.12	359.61	10019.19	4077.82	-27.87	4077.92	0.00	460903.02	653693.53		
14000.00	90.12	359.61	10018.97	4177.82	-28.55	4177.92	0.00	461003.02	653692.85		
14100.00	90.12	359.61	10018.75	4277.82	-29.23	4277.92	0.00	461103.02	653692.17		

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
14200.00	90.12	359.61	10018.53	4377.81	-29.92	4377.92	0.00	461203.01	653691.48	
14300.00	90.12	359.61	10018.32	4477.81	-30.60	4477.92	0.00	461303.01	653690.80	
14400.00	90.12	359.61	10018.10	4577.81	-31.29	4577.92	0.00	461403.01	653690.11	
14446.09	90.12	359.61	10018.00	4623.90	-31.60	4624.01	0.00	461449.10	653689.80	PBHL 002H

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
9729.21	21.56	359.61	9725.00	33.41	-0.23	456858.61	653721.17	2nd BS Sand	

5D Anti-Collision Report

BOPCO, L.P.**Field Name:** *Eddy Co, NM Nad27 NMEZ***Site Name:** *Poker Lake Unit CXV JV Los Medanos #002H***Well Name:** *PLU CXV JV Los Medanos #002H*

16 June 2014





Weatherford

PLU CXV JV Los Medanos #002H

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 #002H	Units : US ft	North Reference : Grid	Convergence Angle : 0.27	
	Position	Northing : 456825.20 US ft	Latitude : 32° 15' 17.82"	
		Easting : 653721.40 US ft	Longitude : -103° 50' 9.86"	
	Elevation above Mean Sea Level : 3409.00 US ft			
Comment :				
Slot Name Poker Lake Unit CXV JV Los Medanos #002H	Position (Offsets relative to Site Centre)			
	+N / -S : -0.00 US ft		Northing : 456825.20 US ft	Latitude : 32° 15' 17.82"
	+E / -W : 0.00 US ft		Easting : 653721.40 US ft	Longitude : -103° 50' 9.86"
	Elevation above Mean Sea Level : 3409.00 US ft			
Comment :				
Well Name PLU CXV JV Los Medanos #002H	Type : Main well		UWI :	Plan : Working Plan
	Rig Height <i>Kelly Bushing</i> : 22.00 US ft		Comment :	
	Relative to Mean Sea Level : 3431.00 US ft			
	Closure Distance : 4624.01 US ft		Closure Azimuth : 359.608°	
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft	Az : 359.61°
	Magnetic Parameters			
	Model : BGGM	Field Strength : 48285.2nT	Dec : 7.49°	Dip : 60.09° Date : 15/Jul/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 #002H (p)	0.00	14446.09	100.00	2

Secondary Well Names

PLU CXV JV Los Medanos #004H (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 #004H (p)	9706.84	9703.01	9704.01	261.37	217.33	5.94	

Secondary Well : PLU CXV JV Los Medanos #004H (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	1.00	0.00	90.07	0.00	0.00	259.90	259.19	364.78	
100.00	100.00	99.00	90.07	0.11	0.11	259.90	258.96	276.78	
200.00	200.00	199.00	90.07	0.34	0.34	259.90	258.51	187.28	
300.00	300.00	299.00	90.07	0.56	0.56	259.90	258.06	141.47	
400.00	400.00	399.00	90.07	0.79	0.79	259.90	257.61	113.66	
500.00	500.00	499.00	90.07	1.01	1.01	259.90	257.16	94.99	
600.00	600.00	599.00	90.07	1.24	1.24	259.90	256.71	81.59	
700.00	700.00	699.00	90.07	1.46	1.46	259.90	256.27	71.50	
800.00	800.00	799.00	90.07	1.69	1.69	259.90	255.82	63.63	
900.00	900.00	899.00	90.07	1.91	1.91	259.90	255.37	57.32	
1000.00	1000.00	999.00	90.07	2.14	2.14	259.90	254.92	52.15	
1100.00	1100.00	1099.00	90.07	2.36	2.36	259.90	254.47	47.84	
1200.00	1200.00	1199.00	90.07	2.59	2.59	259.90	254.02	44.18	
1300.00	1300.00	1299.00	90.07	2.81	2.81	259.90	253.57	41.04	
1400.00	1400.00	1399.00	90.07	3.04	3.04	259.90	253.12	38.32	
1500.00	1500.00	1499.00	90.07	3.26	3.26	259.90	252.67	35.94	
1600.00	1600.00	1599.00	90.07	3.49	3.49	259.90	252.22	33.84	
1700.00	1700.00	1699.00	90.07	3.71	3.71	259.90	251.77	31.97	
1800.00	1800.00	1799.00	90.07	3.93	3.93	259.90	251.32	30.29	
1900.00	1900.00	1899.00	90.07	4.16	4.16	259.90	250.87	28.78	
2000.00	2000.00	1999.00	90.07	4.38	4.38	259.90	250.42	27.42	
2100.00	2100.00	2099.00	90.07	4.61	4.61	259.90	249.97	26.18	
2200.00	2200.00	2199.00	90.07	4.83	4.83	259.90	249.52	25.04	
2300.00	2300.00	2299.00	90.07	5.06	5.06	259.90	249.07	24.00	
2400.00	2400.00	2399.00	90.07	5.28	5.28	259.90	248.62	23.05	
2500.00	2500.00	2499.00	90.07	5.51	5.51	259.90	248.17	22.16	
2600.00	2600.00	2599.00	90.07	5.73	5.73	259.90	247.72	21.35	
2700.00	2700.00	2699.00	90.07	5.96	5.96	259.90	247.27	20.59	
2800.00	2800.00	2799.00	90.07	6.18	6.18	259.90	246.83	19.88	
2900.00	2900.00	2899.00	90.07	6.41	6.41	259.90	246.38	19.22	
3000.00	3000.00	2999.00	90.07	6.63	6.63	259.90	245.93	18.60	
3100.00	3100.00	3099.00	90.07	6.86	6.86	259.90	245.48	18.02	
3200.00	3200.00	3199.00	90.07	7.08	7.08	259.90	245.03	17.47	
3300.00	3300.00	3299.00	90.07	7.31	7.31	259.90	244.58	16.96	
3400.00	3400.00	3399.00	90.07	7.53	7.53	259.90	244.13	16.48	
3500.00	3500.00	3499.00	90.07	7.76	7.76	259.90	243.68	16.02	
3600.00	3600.00	3599.00	90.07	7.98	7.98	259.90	243.23	15.59	
3700.00	3700.00	3699.00	90.07	8.20	8.20	259.90	242.78	15.18	
3800.00	3800.00	3799.00	90.07	8.43	8.43	259.90	242.33	14.79	
3900.00	3900.00	3899.00	90.07	8.65	8.65	259.90	241.88	14.42	
4000.00	4000.00	3999.00	90.07	8.88	8.88	259.90	241.43	14.07	
4100.00	4100.00	4099.00	90.07	9.10	9.10	259.90	240.98	13.74	
4200.00	4200.00	4199.00	90.07	9.33	9.33	259.90	240.53	13.42	
4300.00	4300.00	4299.00	90.07	9.55	9.55	259.90	240.08	13.11	
4400.00	4400.00	4399.00	90.07	9.78	9.78	259.90	239.63	12.82	
4500.00	4500.00	4499.00	90.07	10.00	10.00	259.90	239.18	12.55	
4600.00	4600.00	4599.00	90.07	10.23	10.23	259.90	238.73	12.28	
4700.00	4700.00	4699.00	90.07	10.45	10.45	259.90	238.28	12.02	
4800.00	4800.00	4799.00	90.07	10.68	10.68	259.90	237.84	11.78	
4900.00	4900.00	4899.00	90.07	10.90	10.90	259.90	237.39	11.54	
5000.00	5000.00	4999.00	90.07	11.13	11.13	259.90	236.94	11.32	
5100.00	5100.00	5099.00	90.07	11.35	11.35	259.90	236.49	11.10	

5D Anti-Collision Report

Secondary Well : PLU/CXV/3V/Los Medanos #004H (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	5199.00	90.07	11.58	11.58	259.90	236.04	10.89	
5300.00	5300.00	5299.00	90.07	11.80	11.80	259.90	235.59	10.69	
5400.00	5400.00	5399.00	90.07	12.03	12.03	259.90	235.14	10.50	
5500.00	5500.00	5499.00	90.07	12.25	12.25	259.90	234.69	10.31	
5600.00	5600.00	5599.00	90.07	12.48	12.48	259.90	234.24	10.13	
5700.00	5700.00	5699.00	90.07	12.70	12.70	259.90	233.79	9.95	
5800.00	5800.00	5799.00	90.07	12.92	12.92	259.90	233.34	9.79	
5900.00	5900.00	5899.00	90.07	13.15	13.15	259.90	232.89	9.62	
6000.00	6000.00	5999.00	90.07	13.37	13.37	259.90	232.44	9.46	
6100.00	6100.00	6099.00	90.07	13.60	13.60	259.90	231.99	9.31	
6200.00	6200.00	6199.00	90.07	13.82	13.82	259.90	231.54	9.16	
6300.00	6300.00	6299.00	90.07	14.05	14.05	259.90	231.09	9.02	
6400.00	6400.00	6399.00	90.07	14.27	14.27	259.90	230.64	8.88	
6500.00	6500.00	6499.00	90.07	14.50	14.50	259.90	230.19	8.75	
6600.00	6600.00	6599.00	90.07	14.72	14.72	259.90	229.74	8.62	
6700.00	6700.00	6699.00	90.07	14.95	14.95	259.90	229.29	8.49	
6800.00	6800.00	6799.00	90.07	15.17	15.17	259.90	228.84	8.37	
6900.00	6900.00	6899.00	90.07	15.40	15.40	259.90	228.39	8.25	
7000.00	7000.00	6999.00	90.07	15.62	15.62	259.90	227.94	8.13	
7100.00	7100.00	7099.00	90.07	15.85	15.85	259.90	227.50	8.02	
7200.00	7200.00	7199.00	90.07	16.07	16.07	259.90	227.05	7.91	
7300.00	7300.00	7299.00	90.07	16.30	16.30	259.90	226.60	7.80	
7400.00	7400.00	7399.00	90.07	16.52	16.52	259.90	226.15	7.70	
7500.00	7500.00	7499.00	90.07	16.75	16.75	259.90	225.70	7.60	
7600.00	7600.00	7599.00	90.07	16.97	16.97	259.90	225.25	7.50	
7700.00	7700.00	7699.00	90.07	17.20	17.20	259.90	224.80	7.40	
7800.00	7800.00	7799.00	90.07	17.42	17.42	259.90	224.35	7.31	
7900.00	7900.00	7899.00	90.07	17.65	17.65	259.90	223.90	7.22	
8000.00	8000.00	7999.00	90.07	17.87	17.87	259.90	223.45	7.13	
8100.00	8100.00	8099.00	90.07	18.10	18.10	259.90	223.00	7.04	
8200.00	8200.00	8199.00	90.07	18.32	18.32	259.90	222.55	6.96	
8300.00	8300.00	8299.00	90.07	18.54	18.54	259.90	222.10	6.88	
8400.00	8400.00	8399.00	90.07	18.77	18.77	259.90	221.65	6.79	
8500.00	8500.00	8499.00	90.07	18.99	18.99	259.90	221.20	6.72	
8600.00	8600.00	8599.00	90.07	19.22	19.22	259.90	220.75	6.64	
8700.00	8700.00	8699.00	90.07	19.44	19.44	259.90	220.30	6.56	
8800.00	8800.00	8799.00	90.07	19.67	19.67	259.90	219.85	6.49	
8900.00	8900.00	8899.00	90.07	19.89	19.89	259.90	219.40	6.42	
9000.00	9000.00	8999.00	90.07	20.12	20.12	259.90	218.95	6.35	
9100.00	9100.00	9099.00	90.07	20.34	20.34	259.90	218.50	6.28	
9200.00	9200.00	9199.00	90.07	20.57	20.57	259.90	218.05	6.21	
9300.00	9300.00	9299.00	90.07	20.79	20.79	259.90	217.60	6.14	
9400.00	9400.00	9399.00	90.07	21.02	21.02	259.90	217.15	6.08	
9500.00	9500.00	9499.00	90.07	21.24	21.24	259.90	216.71	6.02	
9600.00	9599.91	9598.91	91.04	21.47	21.47	259.94	216.33	5.96	
9700.00	9697.52	9696.52	95.35	21.69	21.69	261.15	217.15	5.94	
9800.00	9788.67	9787.67	102.45	21.89	21.89	268.21	223.83	6.04	
9900.00	9869.37	9868.37	109.66	22.07	22.07	288.40	243.58	6.43	
10000.00	9936.09	9935.09	114.23	22.22	22.22	327.49	282.26	7.24	
10100.00	9985.91	9984.91	114.05	22.33	22.33	386.27	340.73	8.48	
10200.00	10016.67	10015.67	106.87	22.40	22.40	460.97	415.35	10.10	
10300.00	10027.00	10026.00	89.90	22.43	22.43	545.84	499.97	11.90	
10400.00	10566.00	10955.67	157.68	25.79	16.81	583.06	546.99	16.16	
10500.00	10566.00	11055.46	158.28	26.58	16.98	580.83	544.31	15.91	
10600.00	10566.00	11155.26	158.88	27.47	17.18	578.67	541.64	15.63	
10700.00	10566.00	11255.05	159.49	28.46	17.41	576.57	538.97	15.33	
10800.00	10566.00	11354.84	160.10	29.53	17.66	574.53	536.31	15.03	
10900.00	10566.00	11454.63	160.71	30.68	17.94	572.56	533.68	14.72	

5D Anti-Collision Report

Secondary Well : PLU/CXV/JV/Los Medanos #004H (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
11000.00	10566.00	11554.42	161.33	31.89	18.24	570.66	531.07	14.42	
11100.00	10566.00	11654.21	161.96	33.16	18.57	568.83	528.50	14.10	
11200.00	10566.00	11754.00	162.58	34.49	18.91	567.06	525.95	13.79	
11300.00	10566.00	11853.79	163.21	35.86	19.27	565.36	523.46	13.49	
11400.00	10566.00	11953.58	163.85	37.27	19.65	563.73	521.02	13.20	
11500.00	10566.00	12053.37	164.49	38.72	20.09	562.17	518.65	12.92	
11600.00	10566.00	12153.16	165.13	40.20	20.54	560.68	516.35	12.65	
11700.00	10566.00	12252.95	165.77	41.71	21.01	559.26	514.11	12.39	
11800.00	10566.00	12352.74	166.42	43.25	21.48	557.92	511.91	12.13	
11900.00	10566.00	12452.53	167.07	44.81	21.93	556.64	509.79	11.88	
12000.00	10566.00	12552.32	167.73	46.40	22.43	555.44	507.70	11.64	
12100.00	10566.00	12652.11	168.38	48.00	22.92	554.31	505.74	11.41	
12200.00	10566.00	12751.90	169.04	49.62	23.43	553.25	503.83	11.20	
12300.00	10566.00	12851.69	169.70	51.26	23.98	552.27	501.98	10.98	
12400.00	10566.00	12951.48	170.37	52.91	24.55	551.36	500.16	10.77	
12500.00	10566.00	13051.27	171.03	54.57	25.09	550.53	498.43	10.57	
12600.00	10566.00	13151.06	171.70	56.24	25.61	549.77	496.81	10.38	
12700.00	10566.00	13250.85	172.37	57.93	26.18	549.09	495.23	10.20	
12800.00	10566.00	13350.64	173.04	59.62	26.79	548.48	493.78	10.03	
12900.00	10566.00	13450.43	173.72	61.33	27.38	547.95	492.29	9.84	
13000.00	10566.00	13550.22	174.39	63.04	27.95	547.49	490.82	9.66	
13100.00	10566.00	13650.01	175.07	64.76	28.53	547.11	489.41	9.48	
13200.00	10566.00	13749.80	175.74	66.49	29.11	546.81	488.08	9.31	
13300.00	10566.00	13849.59	176.42	68.22	29.69	546.58	486.84	9.15	
13400.00	10566.00	13949.38	177.10	69.96	30.28	546.43	485.69	9.00	
13500.00	10566.00	14049.17	177.77	71.71	30.89	546.36	484.61	8.85	
13600.00	10566.00	14148.96	178.45	73.46	31.53	546.36	483.33	8.67	
13700.00	10566.00	14248.75	179.13	75.22	32.17	546.44	482.11	8.49	
13800.00	10566.00	14348.54	179.80	76.98	32.81	546.60	480.97	8.33	
13900.00	10566.00	14448.33	180.48	78.74	33.46	546.83	479.91	8.17	
14000.00	10566.00	14548.13	181.16	80.51	34.10	547.14	478.93	8.02	
14100.00	10566.00	14647.92	181.83	82.28	34.75	547.53	478.03	7.88	
14200.00	10566.00	14747.71	182.51	84.06	35.41	547.99	476.99	7.72	
14300.00	10566.00	14847.50	183.18	85.84	36.06	548.53	475.90	7.55	
14400.00	10566.00	14947.29	183.85	87.62	36.72	549.14	474.88	7.39	
14446.09	10566.00	14993.28	184.16	88.44	37.02	549.45	474.43	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 #002H
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: 456825.20 US Survey Foot	Latitude: 32.254951 Degree
East: 653721.40 US Survey Foot	Longitude: -103.836071 Degree
Convergence: 0.27°	
Declination: 7.45°	
Total Correction: 7.18°	
Datum Transformation: none	

Geodetic Location WGS84

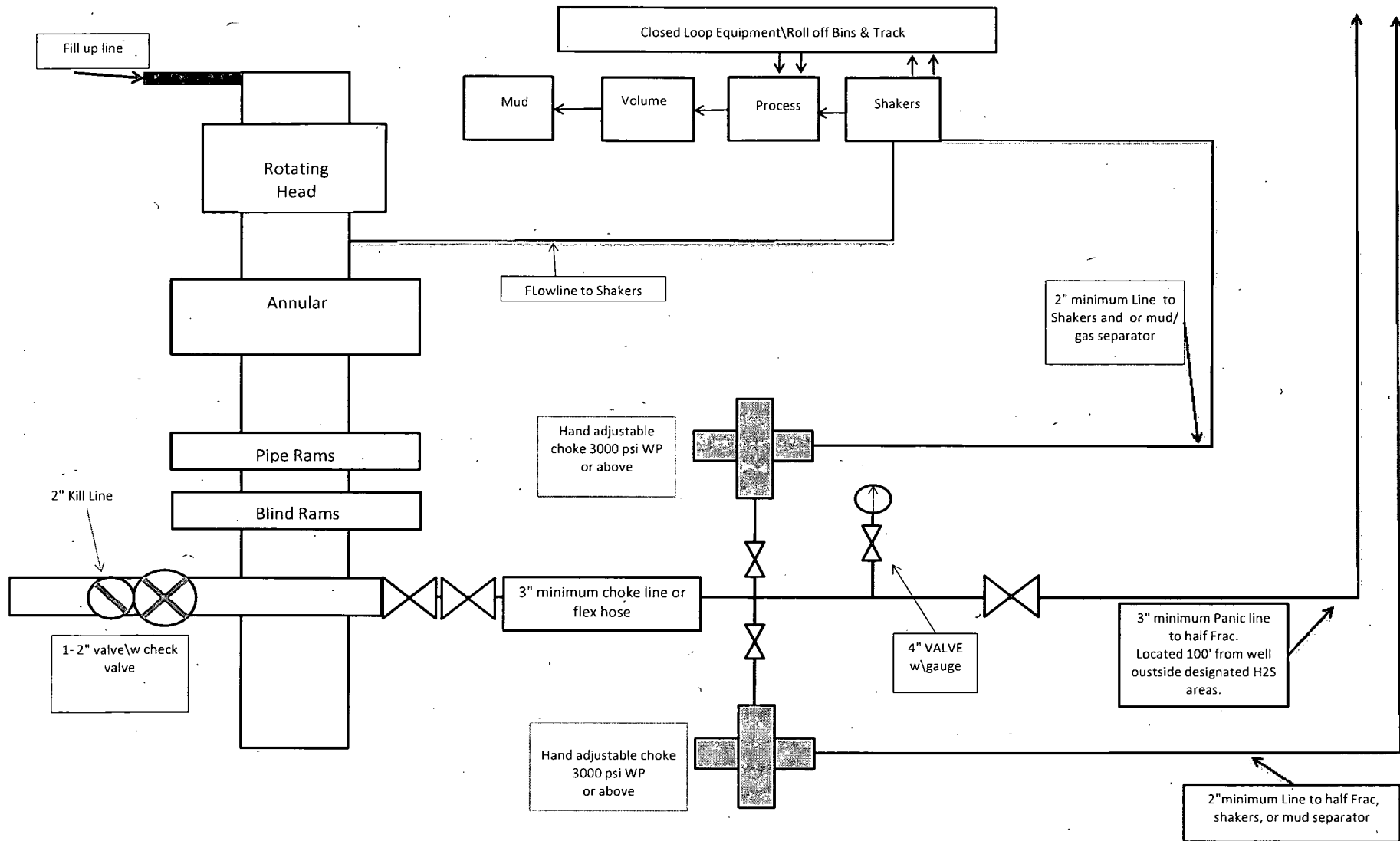
MSL Elevation = 0 m
Latitude = 32° 15' 17.82" N
Longitude = 103° 50' 09.86" W

Magnetic Declination = 7.45 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6637
Local Field Strength = 48295 nT	Magnetic Vector X = 23888 nT
Magnetic Dip = 60.08 deg	Magnetic Vector Y = 3125 nT
Magnetic Model = bggm2013.bgs	Magnetic Vector Z = 41857 nT
Run Date = July 15, 2014	Magnetic Vector H = 24092 nT

Signed: _____ Date: _____

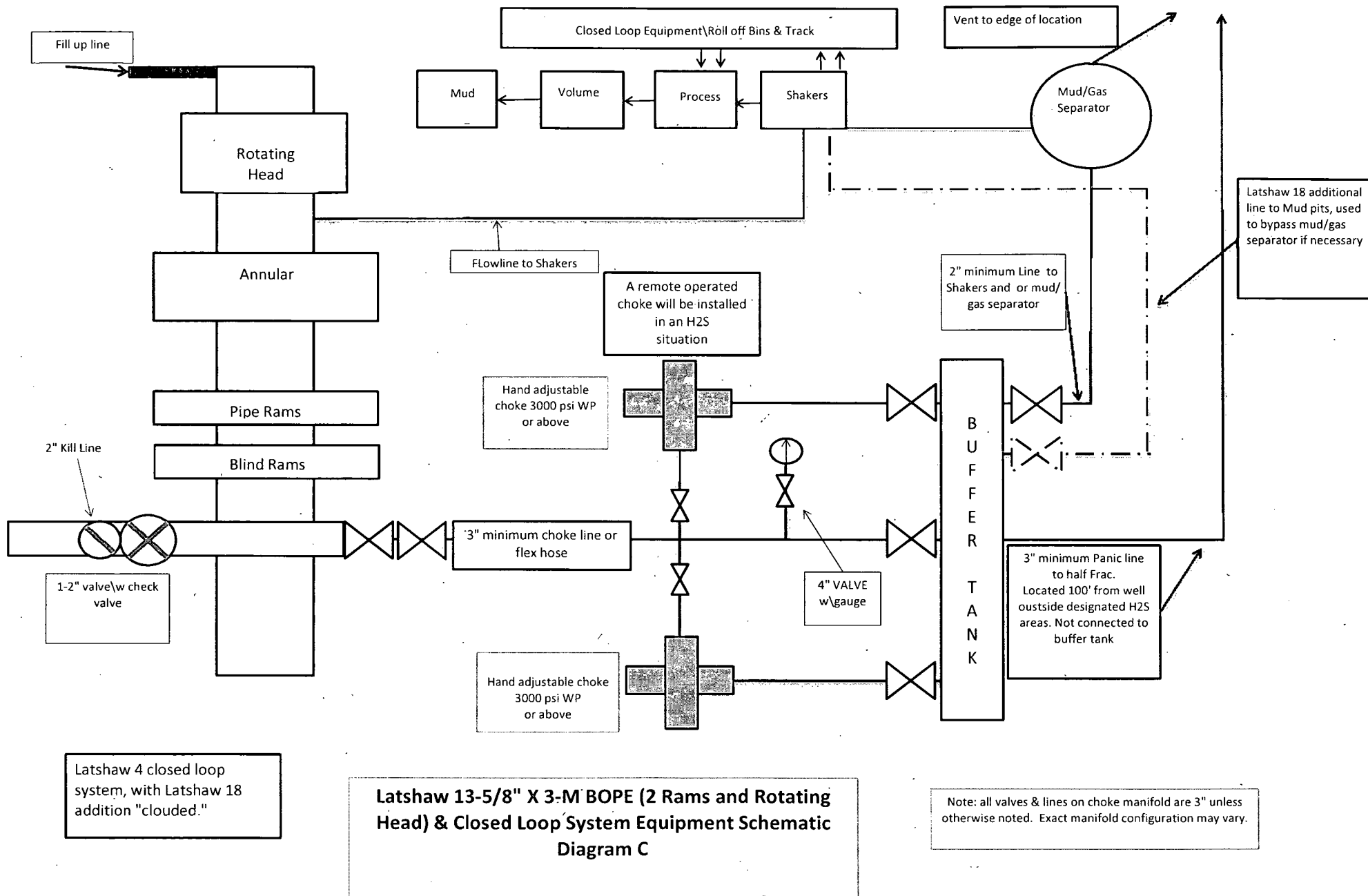
© 2013 Weatherford

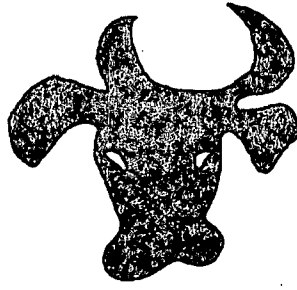
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**13-5/8" X'3-M BOPE (2 Rams and Rotating Head) &
Closed Loop System Equipment Schematic
Diagram A**

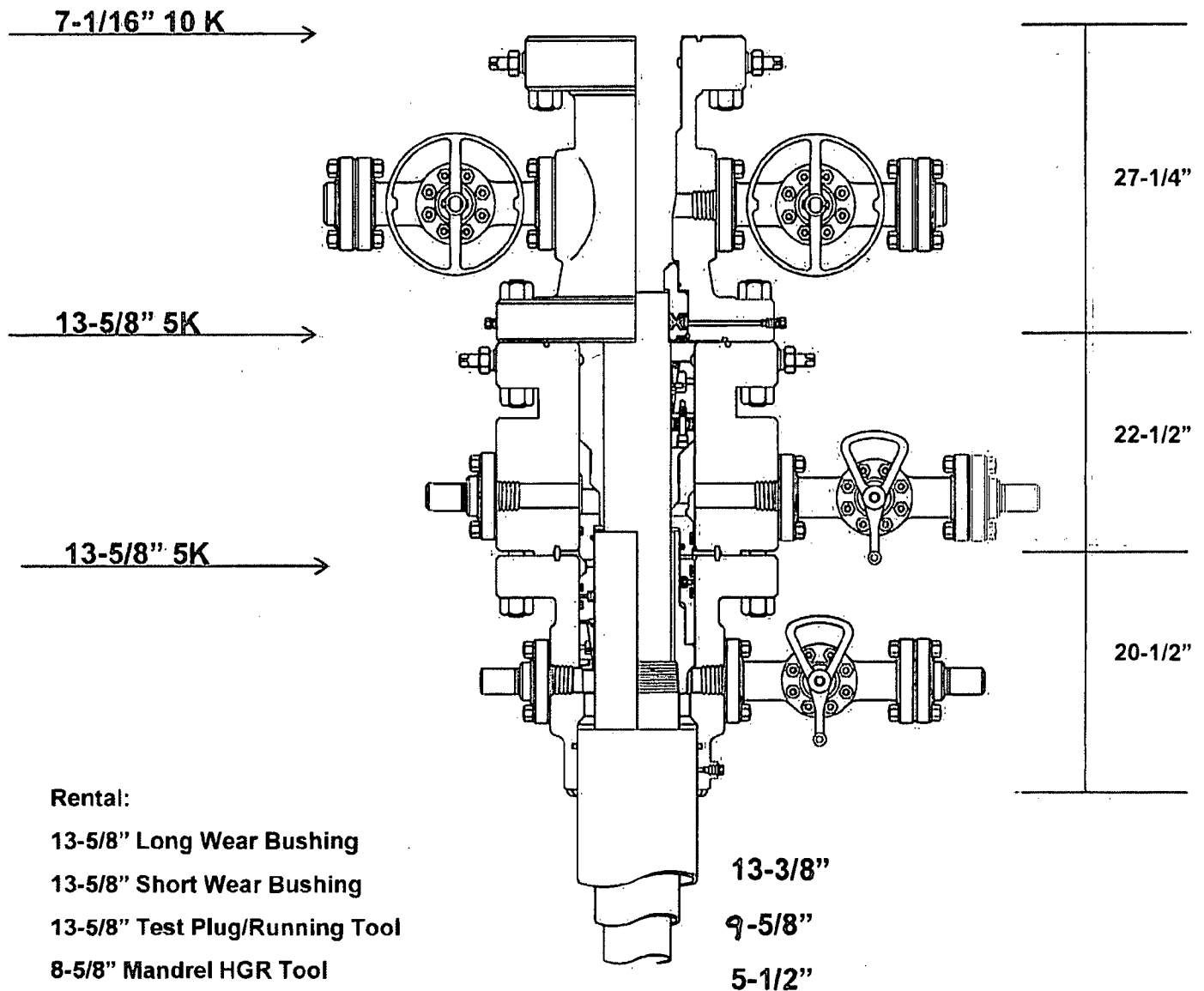
Note: all valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.





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

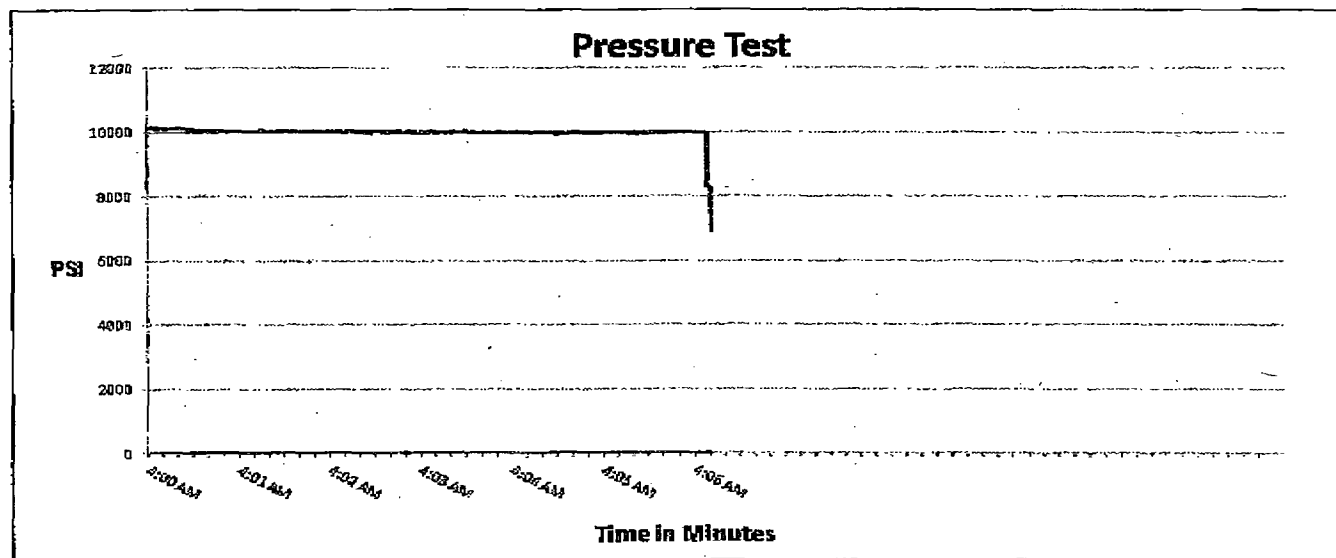
Pick Ticket #: 81610

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



Test Pressure
10000 PSI

Time Held at Test Pressure
5 1/4 Minutes

Actual Burst Pressure

Peak Pressure
10195 PSI

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

Tested By: Donnie Mclemore

Approved By: 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			
<u>Hose assembly pressure tested with water at ambient temperature.</u>			
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