

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources



Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

SEP 25 2008
OCD-ARTESIA
Form C-101
June 16, 2008
Submit to appropriate District Office

☐ AMENDED REPORT

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

Operator Name and Address OGX RESIURCES, LLC. P. O. BOX 2064 MIDLAND, TEXAS 79702		OGRID Number 217955
Property Code 37394		API Number 30-015-36645
Property Name HIGGINS "33"		Well No. 1H
Proposed Pool 1 WILDCAT-BONE SPRING		Proposed Pool 2

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	33	23S	28E		2300'	SOUTH	660'	EAST	EDDY

8 Proposed 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
L	33	23S	28E		1980'	SOUTH	350'	WEST	EDDY

Additional Well Information

Work Type Code N	Well Type Code O	Cable/Rotary ROTARY	Lease Type Code P	Ground Level Elevation 3066'
Multiple NO	Proposed Depth MD-11249' TVD7165'	Formation BONE SPRING	Contractor ADOBE DRILLING CO	Spud Date WHEN APPROVED *

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	20"	Conductor	40'	Redi-mix	Surface
17 1/2"	13 3/8"	48#	510'	4000 Sx.	Surface
12 1/2"	9 5/8"	36#	2400'	650 Sx	Surface
8 3/4"	5 1/2"	17#	11,249' TVD7165'	1400 Sx	Surface

22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

* DRILLING RIG WAITING

SEE ATTACHED SHEET FOR DETAIL

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: Joe T. Janica		Approved by: Jim W. Gurn	
Printed name: Joe T. Janica		Title: District II Supervisor	
Title: Permit Eng.		Approval Date: 9/26/08 Expiration Date: 9/26/10	
E-mail Address: joejanica@valornet.com			
Date: 09/25/08	Phone: 575-391-8503	Conditions of Approval Attached ☐	

DISTRICT I
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		WILDCAT-BONE SPRING
Property Code	Property Name	Well Number
	HIGGINS "33"	1H
OGRID No.	Operator Name	Elevation
217955	OGX RESOURCES, L.L.C.	3066'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	33	23 S	28 E		2300	SOUTH	660	EAST	EDDY

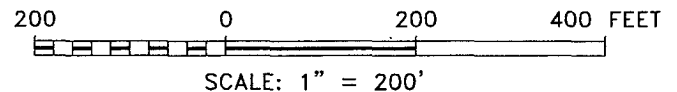
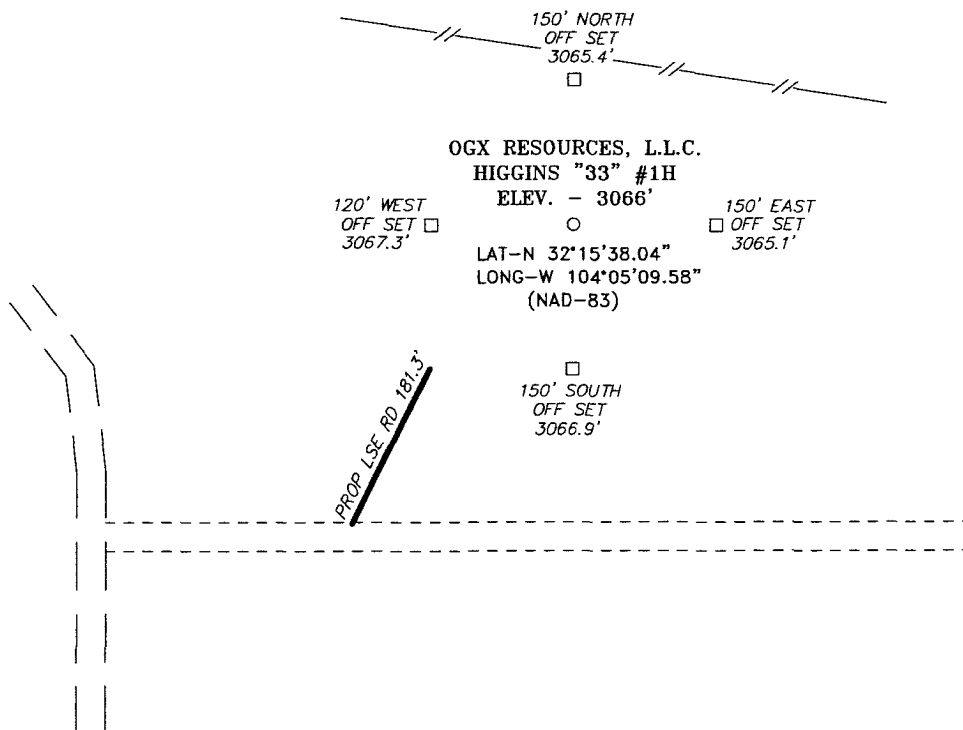
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	33	23 S	28 E		1980	SOUTH	350	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

	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 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 Date Joe T. Janica 09/25/08 Printed Name
	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. SEPTEMBER 22, 2008 Date Surveyed Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 977 BASIN SURVEYS

SECTION 33, TOWNSHIP 23 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



DIRECTIONS TO LOCATION:

FROM MILE MARKER 19 OF HWY 285, GO SOUTH 300'
TO LEASE ROAD, ON LEASE ROAD GO EAST 258' TO
PROPOSED LEASE ROAD.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 20500 Drawn By: J. M. SMALL

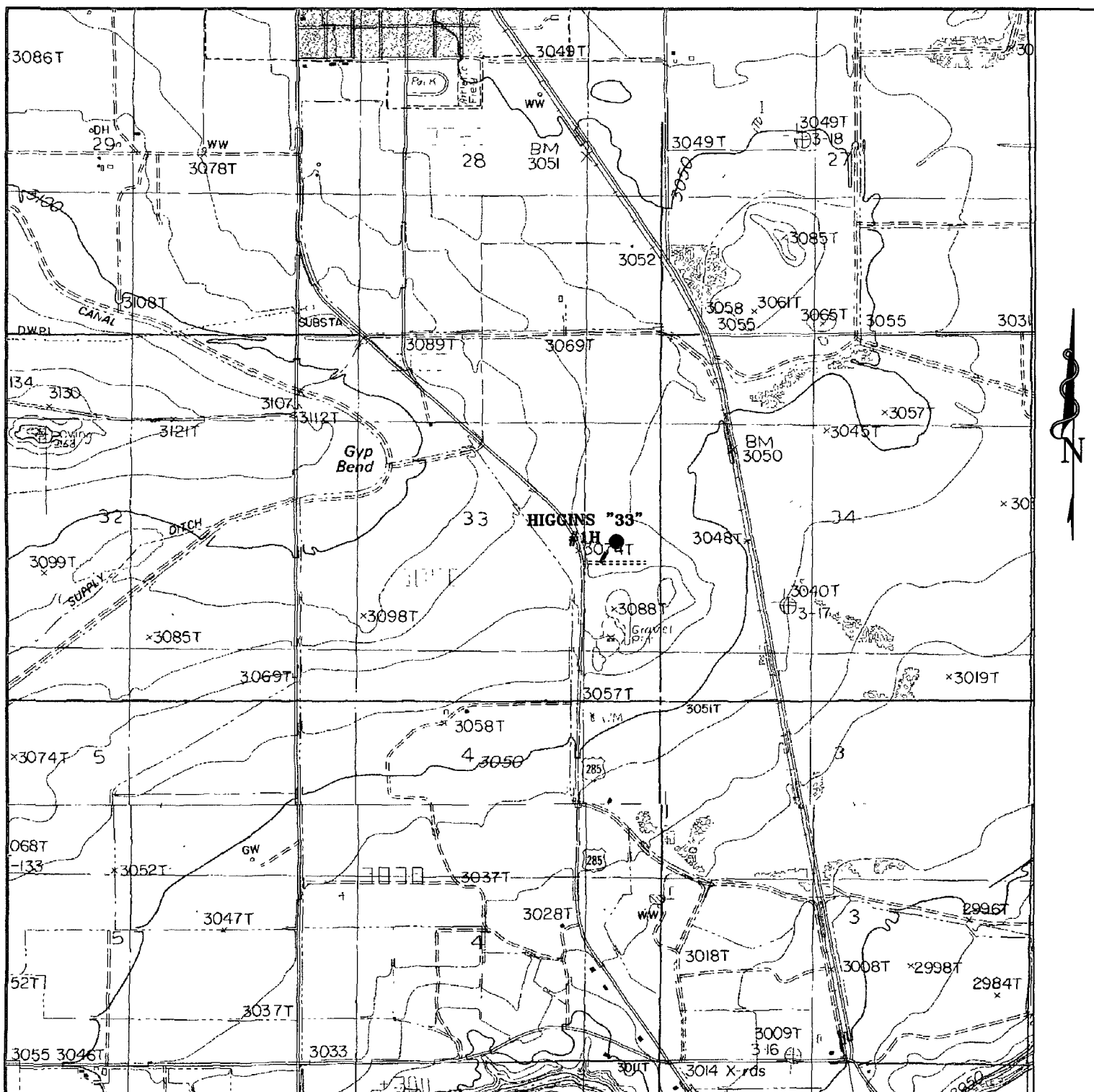
Date: 09-24-2008 Disk: JMS 20500

OGX RESOURCES, L.L.C.

REF: HIGGINS "33" #1H / Well Pad Topo

THE HIGGINS "33" #1H LOCATED 2300' FROM
THE SOUTH LINE AND 660' FROM THE EAST LINE OF
SECTION 33, TOWNSHIP 23 SOUTH, RANGE 28 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 09-22-2008 Sheet 1 of 1 Sheets



HIGGINS "33" #1H

Located at 2300' FSL and 660' FEL
 Section 33, Township 23 South, Range 28 East,
 N.M.P.M., Eddy County, New Mexico.



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

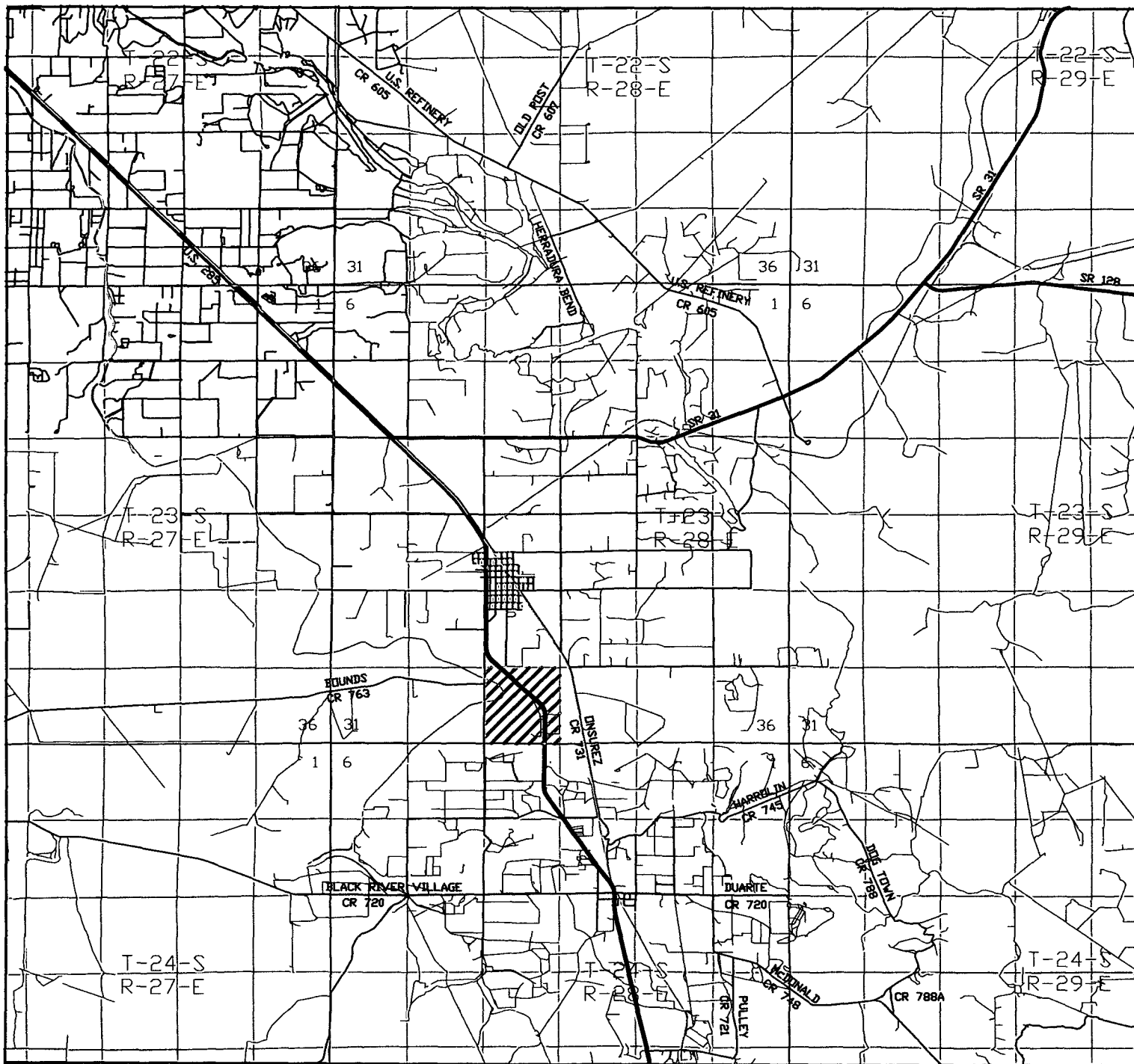
W.O. Number: 20500

Survey Date: 09-22-2008

Scale: 1" = 2000'

Date: 09-24-2008

**OGX
 RESOURCES,
 L.L.C.**



HIGGINS "33" #1H
 Located at 2300' FSL and 660' FEL
 Section 33, Township 23 South, Range 28 East,
 N.M.P.M., Eddy County, New Mexico.

basin
surveys
 focused on excellence
 in the oilfield

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 1120 N. West County Rd.
 Hobbs, New Mexico 88241
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 (575) 392-2206 - Fax
 basinsurveys.com

W.O. Number: JMS 20452

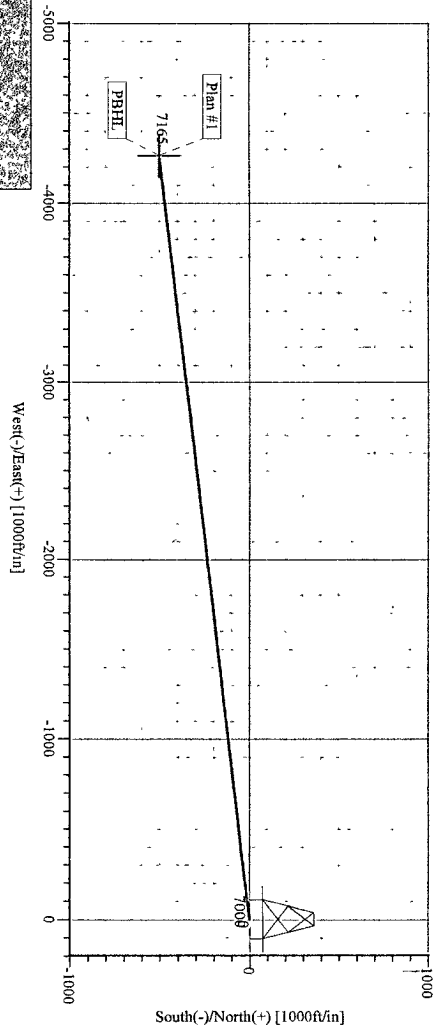
Survey Date: 09-22-2008

Scale: 1" = 2 MILES

Date: 09-24-2008

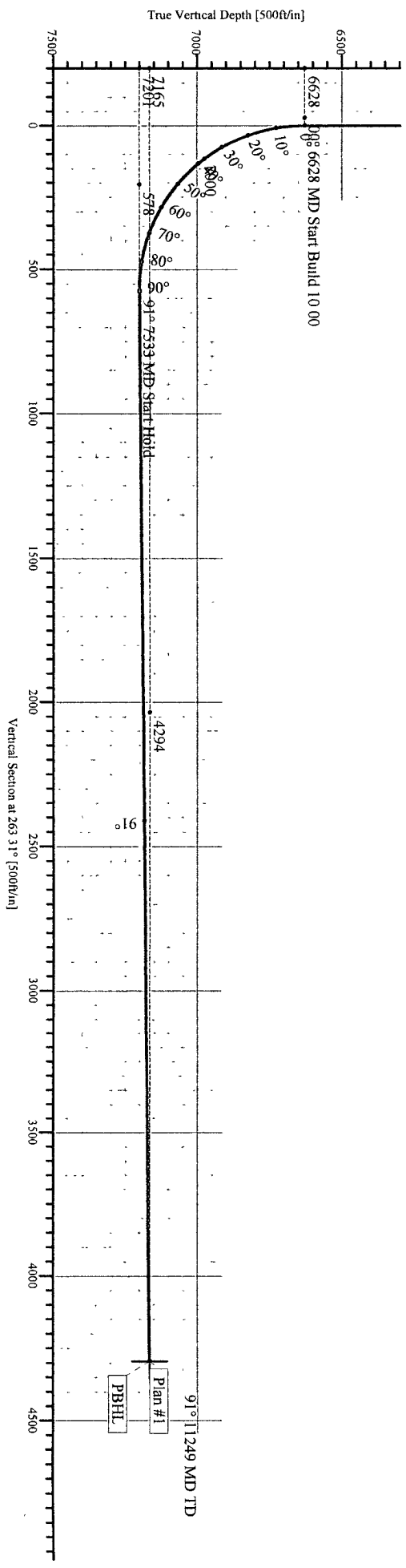
OGX
RESOURCES,
L.L.C.

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 510'. Run and set 510' of 13 3/8" 48# H-40 ST&C casing. Cement with 200 Sx. of 35/65/6 Class "C" POZ cement + 6% Bentonite + 5% Salt + 5% MPA-5 + 0.7% Sodium Metasilicate + 5# LCM/Sx. Yield 2.00, tail in with 200 Sx. of Class "C" cement + 2% CaCl Yield 1.34, circulate cement to surface.
3. Drill 12¼" hole to 2400'. Run and set 2400' of 9 5/8" 36# J-55 ST&C casing. Cement with 450 Sx. of 35/65 Class "C" Premium Plus POZ cement. + 4% Bentonite + 5% Salt + 5% MPA-5 + 0.7% Sodium Metasilicate + 5# LCM/Sx, Yield 2.02, tail in with 200 Sx. of Class "C" cement + 2% CaCl Yield 1.34, circulate cement to surface.
4. Drill 8 3/4" hole to 11,249'. Run and set 11,249' of 5½" 17# N-80 8-R & Buttress. Run casing as follows: 7775' of 17# N-80 LT&C, 3474' of 17# N-80 Buttress T&C. Cement with 800 Sx. of Premium Plus Class "H" cement + 0.7% FL-62 + 0.4% BA-10A + 0.1% FL-52 + 45.8% Fresh water Yield 2.44, tail in with 600 Sx. of 50/50 Class "C" POZ cement + 10% Bentonite + 5% salt Yield 1.33, circulate cement to surface.



TARGET DETAILS								
Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Shape
PPHLL	716.00	500.00	-4265.00	458096.13	572189.52	32°15'33.14"N	104°03'59.23"W	Point

WELL DETAILS							
Name	N/S	E/W	Northing	Easting	Latitude	Longitude	Stat
GH	0.00	0.00	445596.13	576654.52	6°32'15.78" 000N	104°05'00.600" W	N/A



Plan 1: Higgins 13 #114 p072	
Created By: T1:alston	Date: 07/23/08
Checked: _____	Date: _____
Reviewed: _____	Date: _____
Approved: _____	Date: _____

Leam Drilling Systems, Inc.

Planning Report

Company:	OGX RESOURCES	Date:	9/22/2008	Time:	13:59:07	Page:	2
Field:	Eddy County, New Mexico	Co-ordinate(NE) Reference:	Site: Higgins 33 #1H, Grid North				
Site:	Higgins 33 #1H	Vertical (TVD) Reference:	SITE 0.0				
Well:	#1H	Section (VS) Reference:	Well (0.00N,0.00E,263.31Azi)				
Wellpath:	OH	Survey Calculation Method:	Minimum Curvature				Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1700.00	0.00	263.31	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	263.31	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	263.31	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	263.31	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	263.31	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	263.31	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	263.31	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	263.31	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	263.31	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	263.31	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	263.31	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	263.31	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	263.31	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	263.31	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	263.31	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	263.31	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	263.31	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	263.31	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3500.00	0.00	263.31	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	263.31	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3700.00	0.00	263.31	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3800.00	0.00	263.31	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3900.00	0.00	263.31	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	263.31	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4100.00	0.00	263.31	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4200.00	0.00	263.31	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4300.00	0.00	263.31	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4400.00	0.00	263.31	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4500.00	0.00	263.31	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4600.00	0.00	263.31	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	
4700.00	0.00	263.31	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	
4800.00	0.00	263.31	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4900.00	0.00	263.31	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5000.00	0.00	263.31	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5100.00	0.00	263.31	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	
5200.00	0.00	263.31	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5300.00	0.00	263.31	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5400.00	0.00	263.31	5400.00	0.00	0.00	0.00	0.00	0.00	0.00	
5500.00	0.00	263.31	5500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5600.00	0.00	263.31	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5700.00	0.00	263.31	5700.00	0.00	0.00	0.00	0.00	0.00	0.00	
5800.00	0.00	263.31	5800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5900.00	0.00	263.31	5900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6000.00	0.00	263.31	6000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6100.00	0.00	263.31	6100.00	0.00	0.00	0.00	0.00	0.00	0.00	
6200.00	0.00	263.31	6200.00	0.00	0.00	0.00	0.00	0.00	0.00	
6300.00	0.00	263.31	6300.00	0.00	0.00	0.00	0.00	0.00	0.00	
6400.00	0.00	263.31	6400.00	0.00	0.00	0.00	0.00	0.00	0.00	
6500.00	0.00	263.31	6500.00	0.00	0.00	0.00	0.00	0.00	0.00	
6600.00	0.00	263.31	6600.00	0.00	0.00	0.00	0.00	0.00	0.00	
6627.74	0.00	263.31	6627.74	0.00	0.00	0.00	0.00	0.00	0.00	
6650.00	2.23	263.31	6649.99	-0.05	-0.43	0.43	10.00	10.00	0.00	
6700.00	7.23	263.31	6699.81	-0.53	-4.52	4.55	10.00	10.00	0.00	

Leam Drilling Systems, Inc.

Planning Report

Company:	OGX-RESOURCES	Date:	9/22/2008	Time:	13:59:07	Page:	3
Field:	Eddy County, New Mexico	Co-ordinate(NE) Reference:	Site: Higgins 33 #1H, Grid North				
Site:	Higgins 33 #1H	Vertical (TVD) Reference:	SITE 0.0				
Well:	#1H	Section (VS) Reference:	Well (0.00N,0.00E,263.31Azi)				
Wellpath:	OH	Survey Calculation Method:	Minimum Curvature				Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6750.00	12.23	263.31	6749.07	-1.51	-12.91	13.00	10.00	10.00	0.00	
6800.00	17.23	263.31	6797.42	-2.99	-25.53	25.70	10.00	10.00	0.00	
6850.00	22.23	263.31	6844.47	-4.96	-42.28	42.57	10.00	10.00	0.00	
6900.00	27.23	263.31	6889.87	-7.39	-63.05	63.48	10.00	10.00	0.00	
6950.00	32.23	263.31	6933.28	-10.28	-87.66	88.26	10.00	10.00	0.00	
7000.00	37.23	263.31	6974.36	-13.59	-115.94	116.74	10.00	10.00	0.00	
7050.00	42.23	263.31	7012.80	-17.31	-147.67	148.68	10.00	10.00	0.00	
7100.00	47.23	263.31	7048.31	-21.41	-182.61	183.86	10.00	10.00	0.00	
7150.00	52.23	263.31	7080.62	-25.85	-220.48	221.99	10.00	10.00	0.00	
7200.00	57.23	263.31	7109.49	-30.60	-261.01	262.80	10.00	10.00	0.00	
7250.00	62.23	263.31	7134.89	-35.63	-303.89	305.97	10.00	10.00	0.00	
7300.00	67.23	263.31	7156.03	-40.89	-348.78	351.17	10.00	10.00	0.00	
7350.00	72.23	263.31	7173.35	-46.35	-395.35	398.06	10.00	10.00	0.00	
7400.00	77.23	263.31	7186.52	-51.96	-443.24	446.28	10.00	10.00	0.00	
7450.00	82.23	263.31	7195.43	-57.69	-492.09	495.46	10.00	10.00	0.00	
7500.00	87.23	263.31	7200.02	-63.48	-541.52	545.23	10.00	10.00	0.00	
7533.24	90.55	263.31	7200.67	-67.35	-574.52	578.46	10.00	10.00	0.00	
7600.00	90.55	263.31	7200.03	-75.13	-640.83	645.22	0.00	0.00	0.00	
7700.00	90.55	263.31	7199.07	-86.77	-740.14	745.21	0.00	0.00	0.00	
7800.00	90.55	263.31	7198.11	-98.41	-839.46	845.21	0.00	0.00	0.00	
7900.00	90.55	263.31	7197.15	-110.06	-938.77	945.20	0.00	0.00	0.00	
8000.00	90.55	263.31	7196.19	-121.70	-1038.09	1045.20	0.00	0.00	0.00	
8100.00	90.55	263.31	7195.23	-133.34	-1137.40	1145.19	0.00	0.00	0.00	
8200.00	90.55	263.31	7194.27	-144.98	-1236.72	1245.19	0.00	0.00	0.00	
8300.00	90.55	263.31	7193.31	-156.63	-1336.03	1345.18	0.00	0.00	0.00	
8400.00	90.55	263.31	7192.35	-168.27	-1435.35	1445.18	0.00	0.00	0.00	
8500.00	90.55	263.31	7191.39	-179.91	-1534.66	1545.17	0.00	0.00	0.00	
8600.00	90.55	263.31	7190.43	-191.56	-1633.98	1645.17	0.00	0.00	0.00	
8700.00	90.55	263.31	7189.47	-203.20	-1733.30	1745.17	0.00	0.00	0.00	
8800.00	90.55	263.31	7188.51	-214.84	-1832.61	1845.16	0.00	0.00	0.00	
8900.00	90.55	263.31	7187.55	-226.49	-1931.93	1945.16	0.00	0.00	0.00	
9000.00	90.55	263.31	7186.59	-238.13	-2031.24	2045.15	0.00	0.00	0.00	
9100.00	90.55	263.31	7185.63	-249.77	-2130.56	2145.15	0.00	0.00	0.00	
9200.00	90.55	263.31	7184.67	-261.42	-2229.87	2245.14	0.00	0.00	0.00	
9300.00	90.55	263.31	7183.71	-273.06	-2329.19	2345.14	0.00	0.00	0.00	
9400.00	90.55	263.31	7182.75	-284.70	-2428.50	2445.13	0.00	0.00	0.00	
9500.00	90.55	263.31	7181.79	-296.34	-2527.82	2545.13	0.00	0.00	0.00	
9600.00	90.55	263.31	7180.83	-307.99	-2627.13	2645.12	0.00	0.00	0.00	
9700.00	90.55	263.31	7179.87	-319.63	-2726.45	2745.12	0.00	0.00	0.00	
9800.00	90.55	263.31	7178.91	-331.27	-2825.76	2845.11	0.00	0.00	0.00	
9900.00	90.55	263.31	7177.95	-342.92	-2925.08	2945.11	0.00	0.00	0.00	
10000.00	90.55	263.31	7176.99	-354.56	-3024.39	3045.11	0.00	0.00	0.00	
10100.00	90.55	263.31	7176.03	-366.20	-3123.71	3145.10	0.00	0.00	0.00	
10200.00	90.55	263.31	7175.07	-377.85	-3223.02	3245.10	0.00	0.00	0.00	
10300.00	90.55	263.31	7174.11	-389.49	-3322.34	3345.09	0.00	0.00	0.00	
10400.00	90.55	263.31	7173.15	-401.13	-3421.65	3445.09	0.00	0.00	0.00	
10500.00	90.55	263.31	7172.19	-412.77	-3520.97	3545.08	0.00	0.00	0.00	
10600.00	90.55	263.31	7171.23	-424.42	-3620.29	3645.08	0.00	0.00	0.00	
10700.00	90.55	263.31	7170.27	-436.06	-3719.60	3745.07	0.00	0.00	0.00	
10800.00	90.55	263.31	7169.31	-447.70	-3818.92	3845.07	0.00	0.00	0.00	
10900.00	90.55	263.31	7168.35	-459.35	-3918.23	3945.06	0.00	0.00	0.00	
11000.00	90.55	263.31	7167.39	-470.99	-4017.55	4045.06	0.00	0.00	0.00	

Leam Drilling Systems, Inc.

Planning Report

Company: OGX RESOURCES	Date: 9/22/2008	Time: 13:59:07	Page: 4
Field: Eddy County, New Mexico	Co-ordinate(NE) Reference:	Site: Higgins 33 #1H; Grid: North	
Site: Higgins 33 #1H	Vertical (TVD) Reference:	SITE 0.0	
Well: #1H	Section (VS) Reference:	Well (0.00N, 0.00E; 263.31Az)	
Wellpath: OH	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
11100.00	90.55	263.31	7166.43	-482.63	-4116.86	4145.06	0.00	0.00	0.00	
11200.00	90.55	263.31	7165.47	-494.28	-4216.18	4245.05	0.00	0.00	0.00	
11249.16	90.55	263.31	7165.00	-500.00	-4265.00	4294.21	0.00	0.00	0.00	PBHL

Targets

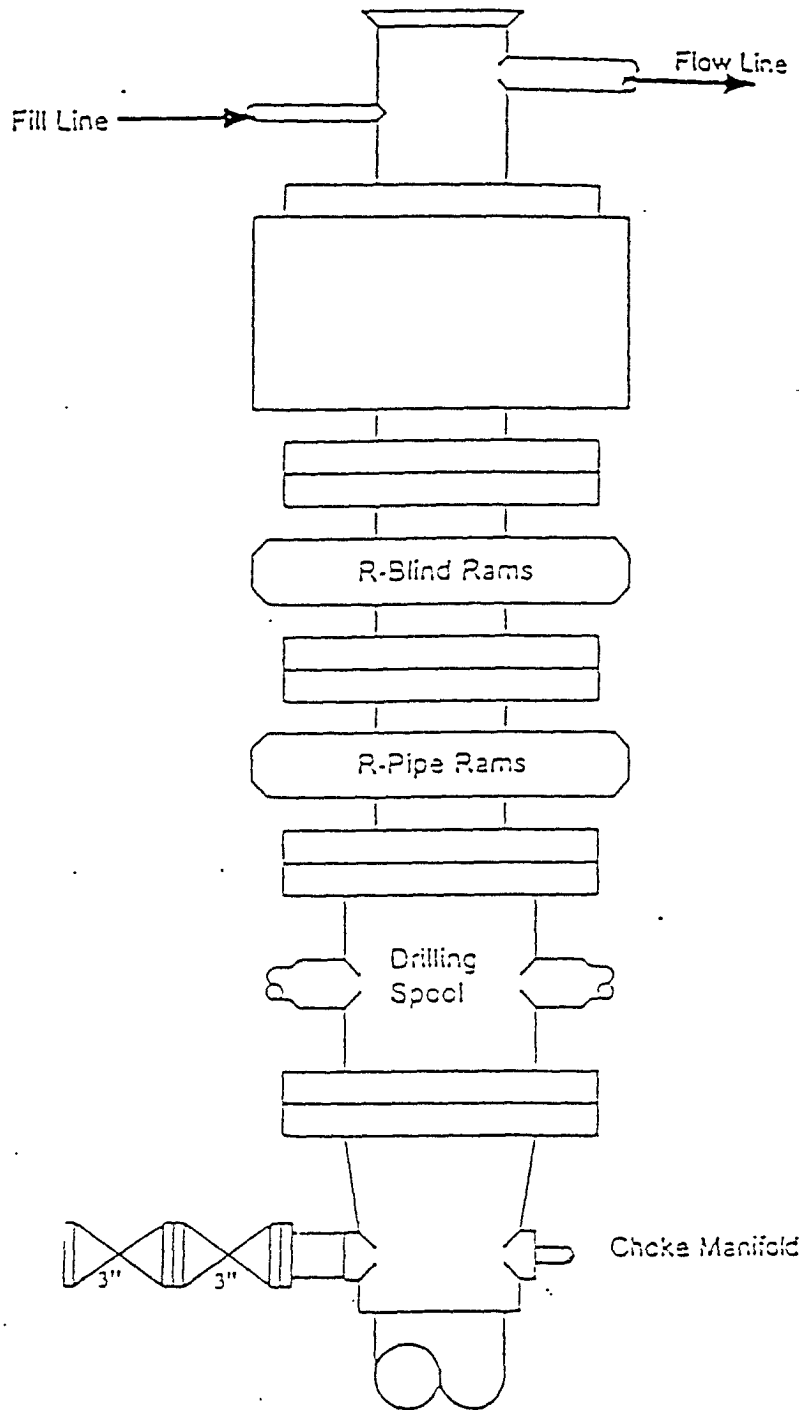
Name	Description Dip	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec			Longitude Deg Min Sec		
PBHL			7165.00	-500.00	-4265.00	458096.13	572189.52	32	15	33.146 N	104	5	59.283 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



Type 900 Series
3000 psi WP

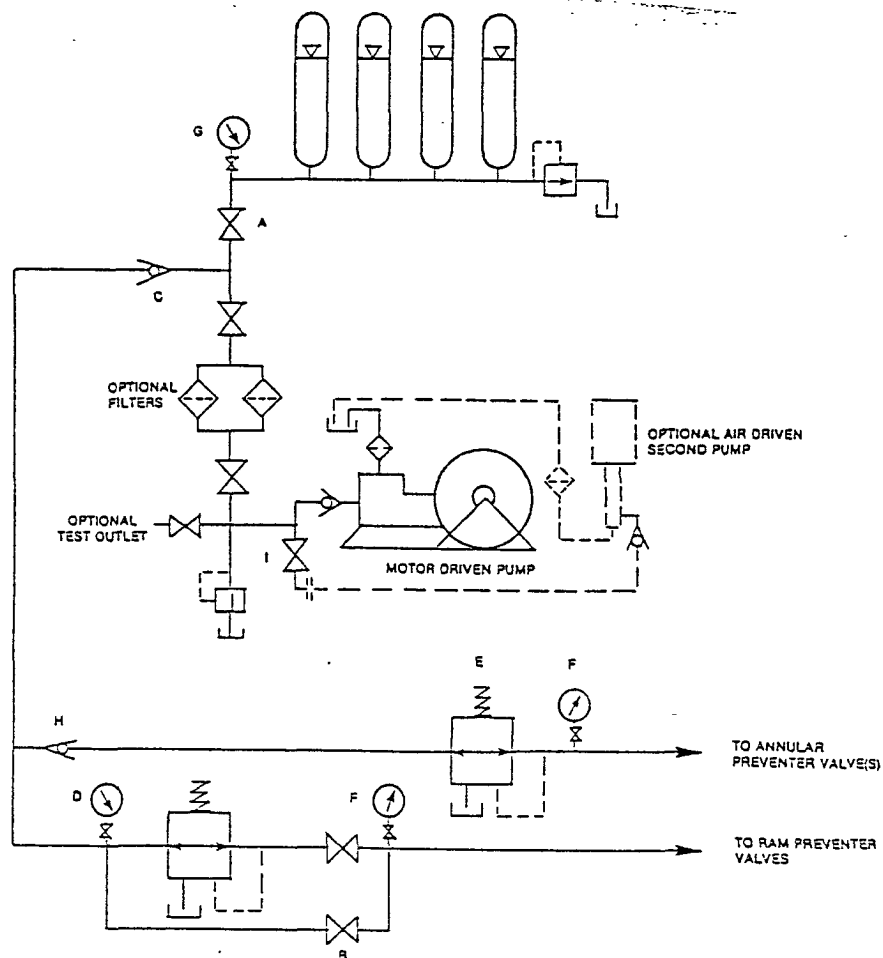


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

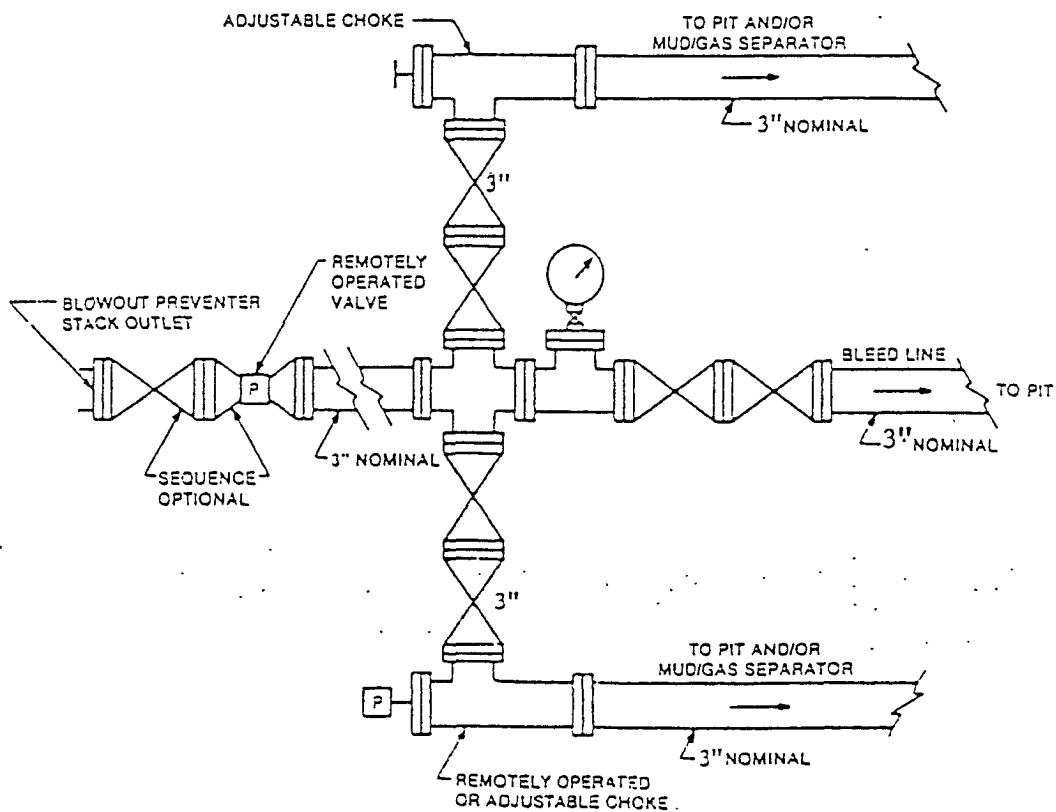


FIGURE K4-2. Typical choke manifold assembly for 5MI rated working pressure service — surface installation.