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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

HOBBS OCD

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-41177	Pool Code 37870	Pool Name Legg, Bone Spring
Property Code 39862	Property Name COOP 6 STATE	Well Number 1H
OGRID No. 000785	Operator Name AMTEX ENERGY, INC.	Elevation 3693.1'

Surface Location

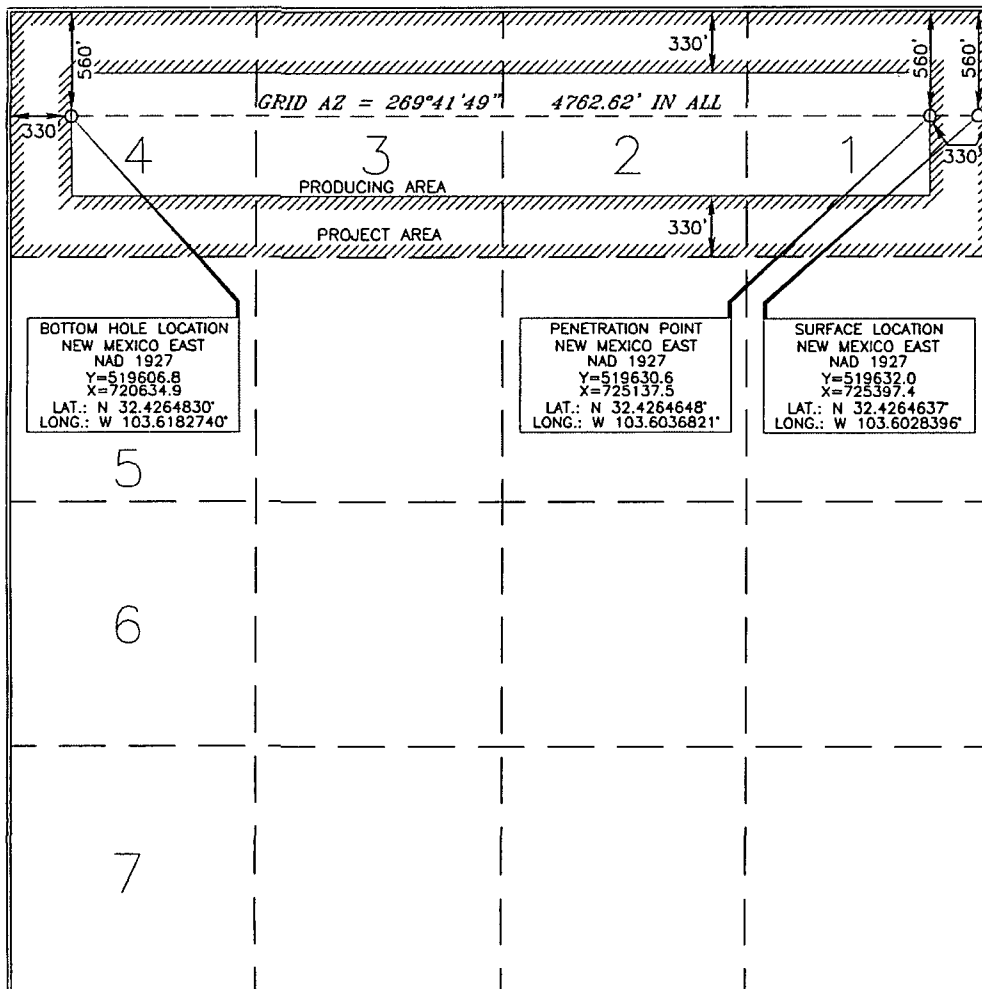
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	6	22 SOUTH	33 EAST, N.M.P.M.		560'	NORTH	70'	EAST	LEA

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
4	6	22 SOUTH	33 EAST, N.M.P.M.		560'	NORTH	330'	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
156.55			

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 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.

William J. Savage 5-1-13
Signature Date

William J. Savage

Printed Name
bsavage@amtenergy.com

E-mail Address

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.

Terry J. Paul
Date of Survey
15079

Signature and Seal of
Professional Surveyor

Terry J. Paul 4/11/2013
Certificate Number 15079

WO# 130325WL-b (KA)

MAY 20 2013

Amtex Energy, Inc.

Drilling Program

Standard Well Location

SL: 560' FNL & 70' FEL

BHL: 560' FNL & 330' FWL

SEC. 6 – T 22S – R 33E

Lea County, New Mexico

1. WELL NAME: COOP 6 State Well No. 1H

2. GEOLOGIC NAME OF SURFACE FORMATION: Permian

3. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

GL: 3693'

KB:

Formation Tops	Depth
Rustler -----	1150'
Cowden Anhydrite -----	3040'
Base/Salt -----	3100'
Capitan Reef Sequence -----	3400'
Delaware Mountain -----	4916'
Bell Canyon Sand -----	4966'
Cherry Canyon -----	6066'
Brushy Canyon -----	7061'
Bone Spring (Top of Avalon)-----	8670'
Cut Off Sand (UCOS) -----	8880'
Lower Avalon -----	9405'
1st Bone Spring Sand -----	9840'
2nd Bone Spring Carbonate -----	10130'
2nd Bone Spring Sand -----	10480'
3rd Bone Spring Carbonate -----	11325'
3rd Bone Spring Sand -----	11660'
Wolfcamp -----	11970'
PTD (Pilot Hole) -----	"No Pilot Hole"
Projected True Vertical Depth ("TVD") -----	10860'

4. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	Above 350'	Fresh Water
2nd Bone Spring Sand	10500' - 10950'	Oil

Fresh water sands will be protected by setting a 13-3/8" csg at 600' and circ the cmt back to surface, 9-5/8" csg will be set at 4900' with cmt circ back to surface.

5. DRILLING PROCEDURE:

1. Plan to drill a 17-1/2" hole to 600' with FW. Run 13-3/8", 54.5#, J-55 csg. and cement to surface.
2. Drill 12-1/4" hole to 4,900' with brine, and run 9-5/8", 40#/47#, J-55/N-80 (with possible DVT/ECP set 200' above reef @ approximately 3,650') and cement to surface.
3. Drill 8-3/4" hole with FW to 10,250'.
4. Run logs and then plug back to 10,200' to kick off and drill lateral to 15,400' MD (10,860' TVD).
- *5. If hole conditions are stable, hold off to run the 7" casing until after the curve is drilled with the 8 3/4" bit. Additionally, if after drilling the curve with the 8 3/4" bit, the hole continues to remain stable, reduce the hole size down to either 7 7/8" for 5 1/2" casing or down to 6" for 4 1/2" casing. Continue drilling the full lateral and then run a tapered string with the 5 1/2" or 4 1/2" casing through the lateral, then a tool joint crossover at the bottom of the curve shall connect to the 7" casing which will be run back to surface.
- *6. If hole conditions are not stable, skip step #5 and go on to step #7.
7. Run 7" 29#, P-110 csg. and cement to 2,500' in 2 stages.
8. Drill out 7" csg. With 6-1/8" or 8-1/2" bit (if the 7" has not been run) and target a 10°/100 ft. radius curve to land the TVD at 10,860' and drill horizontal to 15,400'+/-MD.
9. The 5-1/2" casing or the 4-1/2" casing liner will either be fully cemented or it will be run through the lateral with isolation packers with top of 4-1/2" casing liner at 10,150' +/-.

* Steps determined by hole conditions.

6. CASING PROGRAM:

Casing	TrueVertical Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	600'	17-1/2"	13-3/8"	54.5 lb/ft	J-55	Surface
Intermediate	4900'	12-1/4"	9-5/8"	40/47 lb/ft	J-55 & N-80	Surface
2nd Intermediate	10250'	8-3/4"	7"	29 lb/ft	P-110	2500'
Production Lateral - 5250'	TD @ MD is 15,400'	6-1/8"	4-1/2"	11.6 lb/ft	P-110	DVT @ 10,200

7. CEMENT PROGRAM:

True Vertical Depth	Number of Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
600'	500	14.8	1.32	Class 'C' + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps Cello Flake + 0.005 gps FP-6L
4900'	2200	12.7	2.01	Lead: Class 'C' + 2.00% SMS + 1.5% R-3 + 0.25 lb/sx Cello Flake + 0.005 lb/sx Static Free
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sx Cello Flake + 0.005 lb/sx Static Free
10250'	1400	12.7	2.01	Lead: Class 'C' + 2.00% SMS + 1.5% R-3 + 0.25 lb/sx Cello Flake + 0.005 lb/sx Static Free
	750	14.8	1.3	Tail: Class 'C' + 0.25 lb/sx Cello Flake + 0.005 lb/sx Static Free
TMD for Lateral				4.5" liner Halliburton Swellpacker
5250'				Ball Drop Delta Stim System 5000 Series
TD @ MD is 15,400'				

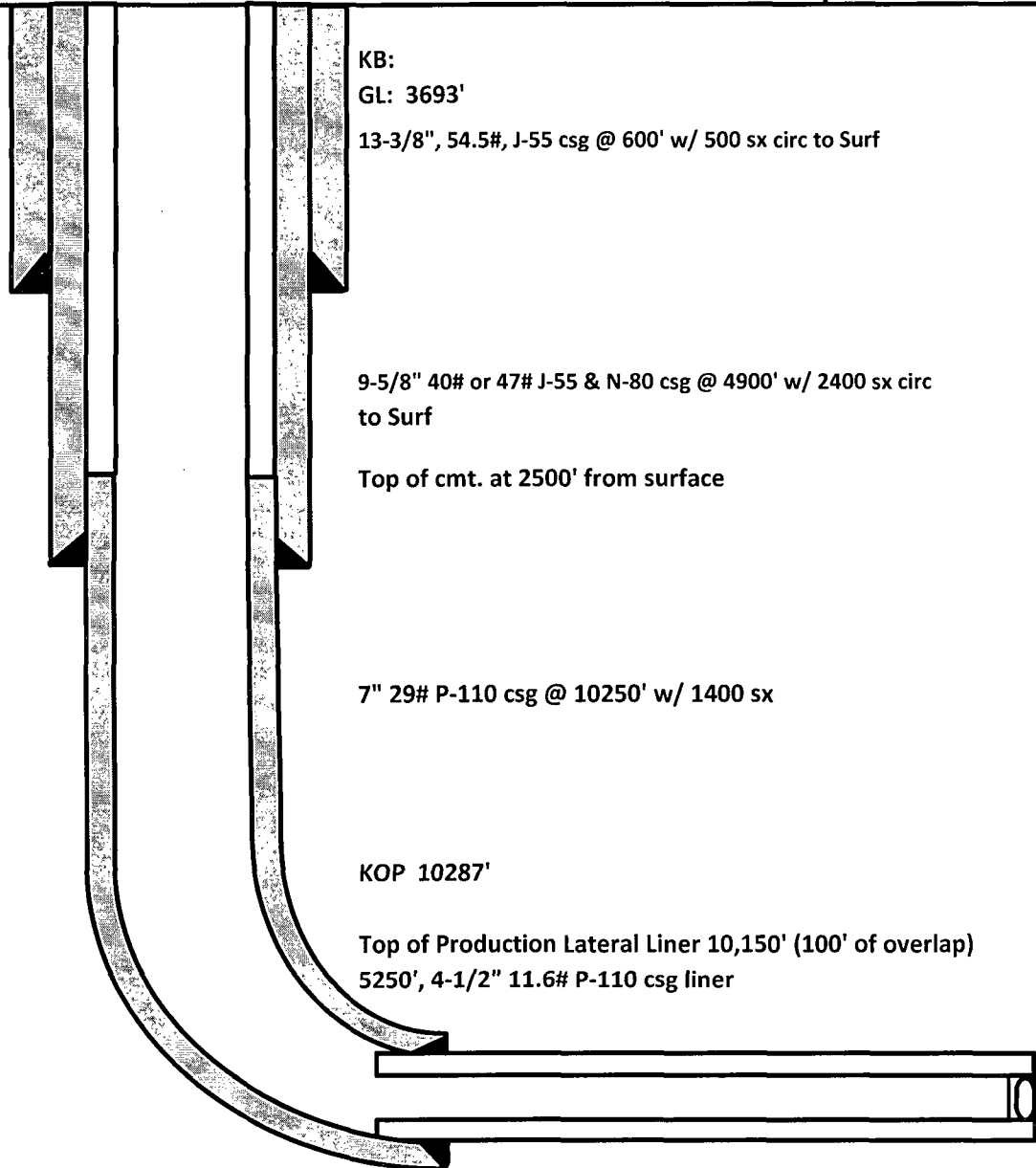
8. MUD PROGRAM:

True Measured Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 600'	Fresh Water	8.5 - 9.2	30 - 34	No Control (N/C)
600' - 4900'	Brine	9.5 - 10.0	28 - 29	N/C
4900' - 10,250'	Fresh Water	8.4 - 8.8	28 - 32	9150' < 15
Lateral 10,250' - 15,400'	Mud up with: Optixan/Starpac II / HDS Surfactant	8.6 - 8.9	46 - 50	< 10

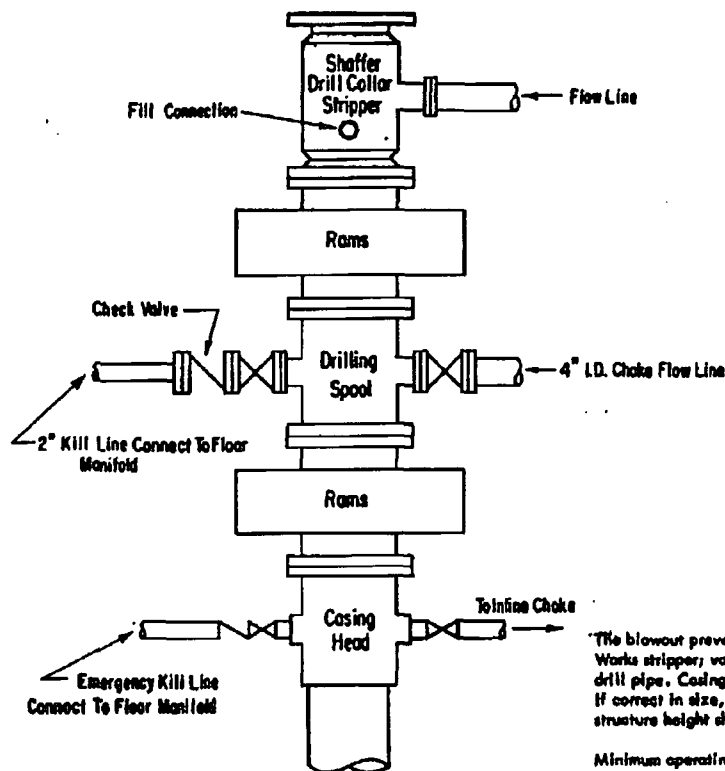
NOTE : Follow specific instructions according to Horizon Mud Company's Program.

8. Proposed Wellbore Schematic

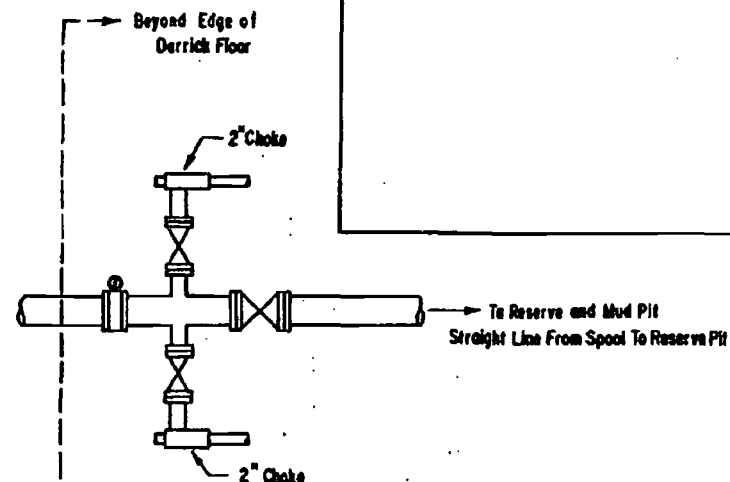
Operator: Amtex Energy, Inc.	Name of Lease: COOP 6 State	Date: 05/10/2013
API: 30-025-	Well Name: COOP 6 State #1H	
Surface Location: Lot 1, 560' FNL & 70' FEL, Sec. 6 - T 22S - R 33E, Lea County, New Mexico		
KB:	GL: 3693'	By: KAE



True Vertical Depth: 10860'
TD @ MD is 15,400'



**3000 PSI WORKING PRESSURE
BLOWOUT PREVENTER HOOK-UP**



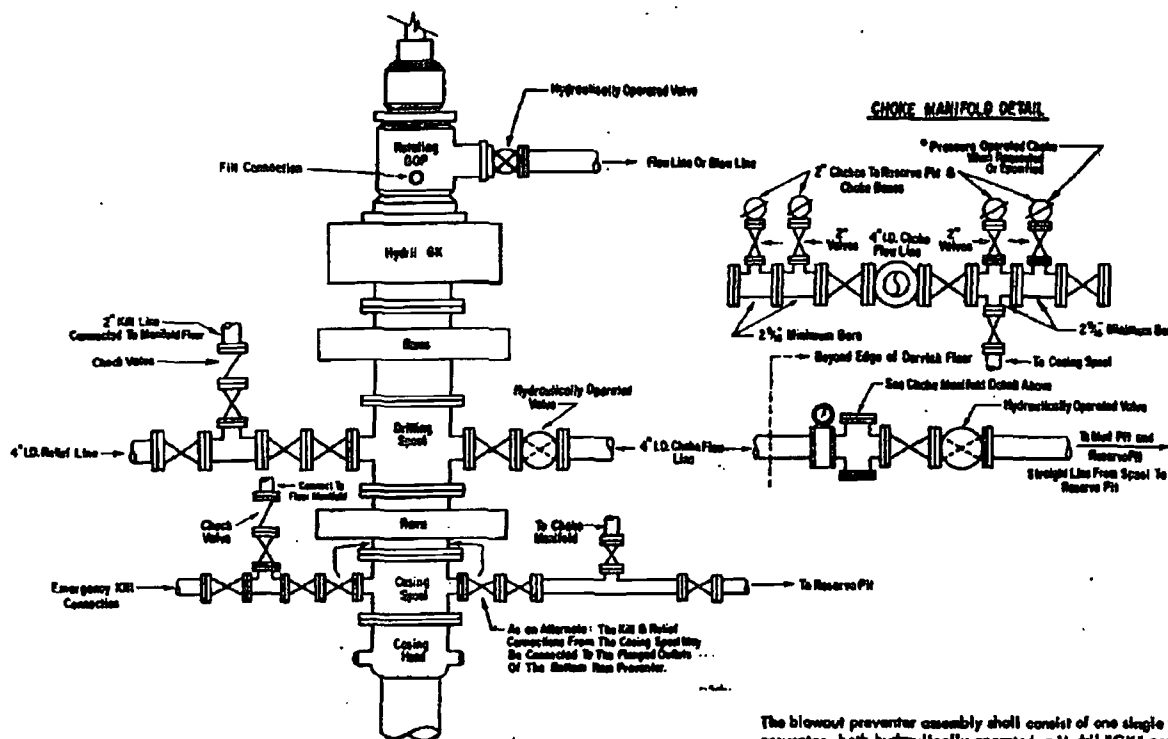
**ADDITIONS - DELETIONS - CHANGES
SPECIFY**

The blowout preventer assembly shall consist of one blind ram preventer and one pipe ram preventer, both hydraulically operated; a Shafter Tool Works stripper; valves; chokes and connections, as illustrated. If a tapered drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing rams to fit the preventers are to be available as needed. The ram preventers may be two singles or a double type. If correct in size, the flanged outlets of the ram preventer may be used for connecting to the 4-inch I.D. choke flow line and kill line. The substructure height shall be sufficient to install a rotating blowout preventer.

Minimum operating equipment for the preventers shall be as follows: (1) Pump (a), driven by a continuous source of power, capable of closing all the pressure-operated devices simultaneously within _____ seconds. The pump (a) is to be connected to a closed type hydraulic operating system. (2) When requested, accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive a fluid charge from the above pump (a). With the charging pump (a) shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-operated devices simultaneously within _____ seconds; after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least _____ percent of the original. (3) When requested, an additional source of power, remote and equivalent, is to be available to operate the above pump (a); or there shall be an additional pump (a) operated by separate power and equal in performance capabilities.

The closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided if a Hydril preventer is used. Gulf Legion No. 38 hydraulic oil, or equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valve connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.



**5000* PSI WORKING PRESSURE
BLOWOUT PREVENTER HOOK-UP**

**ADDITIONS-DELETIONS-CHANGES
SPECIFY**

The blowout preventer assembly shall consist of one single type billed ram preventer and one single type pipe ram preventer, both hydraulically operated; a Hydril "GK" preventer; a rotating blowout preventer; valves, chokes and connections, as illustrated. If a tapered drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing runs to fit the preventers are to be available as needed. If correct in size, the flanged outlets of the ram preventer may be used for connecting to the 4-inch I.D. choke flow line and 4-inch I.D. relief line, except when air or gas drilling. All preventer connections are to be open-face flanged.

Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continuous source of power, capable of fluid charging the total accumulator volume from the nitrogen precharge pressure to its rated pressure within _____ minutes. Also, the pumps are to be connected to the hydraulic operating system which is to be a closed system. (2) Accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive the aforementioned fluid charge. With the charging pumps shut down, the pressurized fluid volume stored in the accumulator must be sufficient to close all the pressure-operated devices simultaneously within _____ seconds; after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least _____ percent of the original. (3) When requested, an additional source of power, reserve and equivalent, is to be available to operate the above pumps; or there shall be additional pumps operated by separate power and equal in performance capabilities.

The closing manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. Gulf Logon No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, relief line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line, relief line, and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. If deemed necessary, walkways and stairways shall be erected in and around the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves and relief line valves connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.

* To include derrick floor mounted controls.

Amtex Energy, Inc

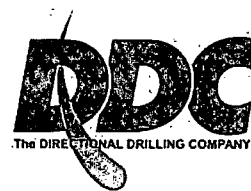
**Lea County, New Mexico
Sec 6, T-22-S, R-33-E NMPM
Coop 6 State #1H**

Wellbore #1

Plan: Design #1

DDC Well Planning Report

03 May, 2013



DDC
Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Coop 6 State #1H
Company:	Amtex Energy, Inc	TVD Reference:	WELL @ 3693.1usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3693.1usft (Original Well Elev)
Site:	Sec 6, T-22-S, R-33-E NMPM	North Reference:	Grid
Well:	Coop 6 State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, New Mexico		
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	Sec 6, T-22-S, R-33-E NMPM		
Site Position:		Northing:	517,172.20 usft
From:	Map	Easting:	725,413.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 25' 10.928 N
		Longitude:	103° 36' 10.231 W
		Grid Convergence:	0.39 °

Well	Coop 6 State #1H		
Well Position	+N/-S	2,459.8 usft	Northing: 519,632.00 usft
	+E/-W	-16.1 usft	Easting: 725,397.40 usft
Position Uncertainty	0.0 usft		Latitude: 32° 25' 35.270 N
			Longitude: 103° 36' 10.223 W
		Wellhead Elevation:	Ground Level: 3,693.1 usft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/3/2013	7.38	60.32	48,545

Design	Design #1		
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Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	269.70

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,287.0	0.00	0.00	10,287.0	0.0	0.0	0.00	0.00	0.00	0.00	
11,187.0	90.00	269.70	10,860.0	-3.0	-572.9	10.00	10.00	-10.03	269.70	
15,376.6	90.00	269.70	10,860.0	-25.2	-4,762.5	0.00	0.00	0.00	0.00	PBHL Coop 6 State

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Coop 6 State #1H
Company:	Armtex Energy, Inc	TVD Reference:	WELL @ 3693.1usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3693.1usft (Original Well Elev)
Site:	Sec 6, T-22-S, R-33-E NMPM	North Reference:	Grid
Well:	Coop 6 State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
Build 10° / 100'									
10,287.0	0.00	0.00	10,287.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	1.30	269.70	10,300.0	0.0	-0.1	0.1	10.00	10.00	0.00
10,400.0	11.30	269.70	10,399.3	-0.1	-11.1	11.1	10.00	10.00	0.00
10,500.0	21.30	269.70	10,495.1	-0.2	-39.1	39.1	10.00	10.00	0.00
10,600.0	31.30	269.70	10,584.7	-0.4	-83.4	83.4	10.00	10.00	0.00
10,700.0	41.30	269.70	10,665.2	-0.8	-142.5	142.5	10.00	10.00	0.00
10,800.0	51.30	269.70	10,734.2	-1.1	-214.7	214.7	10.00	10.00	0.00
10,900.0	61.30	269.70	10,789.6	-1.6	-297.8	297.8	10.00	10.00	0.00
11,000.0	71.30	269.70	10,829.7	-2.1	-389.3	389.3	10.00	10.00	0.00
11,100.0	81.30	269.70	10,853.4	-2.6	-486.3	486.3	10.00	10.00	0.00
EOB @ 90° Inc / 269.70° Azm / 10860' TVD									
11,187.0	90.00	269.70	10,860.0	-3.0	-572.9	573.0	10.00	10.00	0.00
11,200.0	90.00	269.70	10,860.0	-3.1	-585.9	586.0	0.00	0.00	0.00
11,300.0	90.00	269.70	10,860.0	-3.6	-685.9	686.0	0.00	0.00	0.00
11,400.0	90.00	269.70	10,860.0	-4.2	-785.9	786.0	0.00	0.00	0.00
11,500.0	90.00	269.70	10,860.0	-4.7	-885.9	886.0	0.00	0.00	0.00
11,600.0	90.00	269.70	10,860.0	-5.2	-985.9	986.0	0.00	0.00	0.00
11,700.0	90.00	269.70	10,860.0	-5.7	-1,085.9	1,086.0	0.00	0.00	0.00
11,800.0	90.00	269.70	10,860.0	-6.3	-1,185.9	1,186.0	0.00	0.00	0.00
11,900.0	90.00	269.70	10,860.0	-6.8	-1,285.9	1,286.0	0.00	0.00	0.00
12,000.0	90.00	269.70	10,860.0	-7.3	-1,385.9	1,386.0	0.00	0.00	0.00
12,100.0	90.00	269.70	10,860.0	-7.9	-1,485.9	1,486.0	0.00	0.00	0.00
12,200.0	90.00	269.70	10,860.0	-8.4	-1,585.9	1,586.0	0.00	0.00	0.00
12,300.0	90.00	269.70	10,860.0	-8.9	-1,685.9	1,686.0	0.00	0.00	0.00
12,400.0	90.00	269.70	10,860.0	-9.4	-1,785.9	1,786.0	0.00	0.00	0.00
12,500.0	90.00	269.70	10,860.0	-10.0	-1,885.9	1,886.0	0.00	0.00	0.00
12,600.0	90.00	269.70	10,860.0	-10.5	-1,985.9	1,986.0	0.00	0.00	0.00
12,700.0	90.00	269.70	10,860.0	-11.0	-2,085.9	2,086.0	0.00	0.00	0.00
12,800.0	90.00	269.70	10,860.0	-11.6	-2,185.9	2,186.0	0.00	0.00	0.00
12,900.0	90.00	269.70	10,860.0	-12.1	-2,285.9	2,286.0	0.00	0.00	0.00
13,000.0	90.00	269.70	10,860.0	-12.6	-2,385.9	2,386.0	0.00	0.00	0.00
13,100.0	90.00	269.70	10,860.0	-13.2	-2,485.9	2,486.0	0.00	0.00	0.00
13,200.0	90.00	269.70	10,860.0	-13.7	-2,585.9	2,586.0	0.00	0.00	0.00
13,300.0	90.00	269.70	10,860.0	-14.2	-2,685.9	2,686.0	0.00	0.00	0.00
13,400.0	90.00	269.70	10,860.0	-14.7	-2,785.9	2,786.0	0.00	0.00	0.00
13,500.0	90.00	269.70	10,860.0	-15.3	-2,885.9	2,886.0	0.00	0.00	0.00
13,600.0	90.00	269.70	10,860.0	-15.8	-2,985.9	2,986.0	0.00	0.00	0.00
13,700.0	90.00	269.70	10,860.0	-16.3	-3,085.9	3,086.0	0.00	0.00	0.00
13,800.0	90.00	269.70	10,860.0	-16.9	-3,185.9	3,186.0	0.00	0.00	0.00
13,900.0	90.00	269.70	10,860.0	-17.4	-3,285.9	3,286.0	0.00	0.00	0.00
14,000.0	90.00	269.70	10,860.0	-17.9	-3,385.9	3,386.0	0.00	0.00	0.00
14,100.0	90.00	269.70	10,860.0	-18.4	-3,485.9	3,486.0	0.00	0.00	0.00
14,200.0	90.00	269.70	10,860.0	-19.0	-3,585.9	3,586.0	0.00	0.00	0.00
14,300.0	90.00	269.70	10,860.0	-19.5	-3,685.9	3,686.0	0.00	0.00	0.00
14,400.0	90.00	269.70	10,860.0	-20.0	-3,785.9	3,786.0	0.00	0.00	0.00
14,500.0	90.00	269.70	10,860.0	-20.6	-3,885.9	3,886.0	0.00	0.00	0.00
14,600.0	90.00	269.70	10,860.0	-21.1	-3,985.9	3,986.0	0.00	0.00	0.00
14,700.0	90.00	269.70	10,860.0	-21.6	-4,085.9	4,086.0	0.00	0.00	0.00
14,800.0	90.00	269.70	10,860.0	-22.1	-4,185.9	4,186.0	0.00	0.00	0.00
14,900.0	90.00	269.70	10,860.0	-22.7	-4,285.9	4,286.0	0.00	0.00	0.00
15,000.0	90.00	269.70	10,860.0	-23.2	-4,385.9	4,386.0	0.00	0.00	0.00
15,100.0	90.00	269.70	10,860.0	-23.7	-4,485.9	4,486.0	0.00	0.00	0.00
15,200.0	90.00	269.70	10,860.0	-24.3	-4,585.9	4,586.0	0.00	0.00	0.00

DDC

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Coop 6 State #1H
Company:	Amtex Energy, Inc	TVD Reference:	WELL @ 3693.1usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3693.1usft (Original Well Elev)
Site:	Sec 6, T-22-S, R-33-E NMPM	North Reference:	Grid
Well:	Coop 6 State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
15,300.0	90.00	269.70	10,860.0	-24.8	-4,685.9	4,686.0	0.00	0.00	0.00
TD @ 15377' MD / 10860' TVD									
15,376.6	90.00	269.70	10,860.0	-25.2	-4,762.5	4,762.6	0.00	0.00	0.00

Design Targets

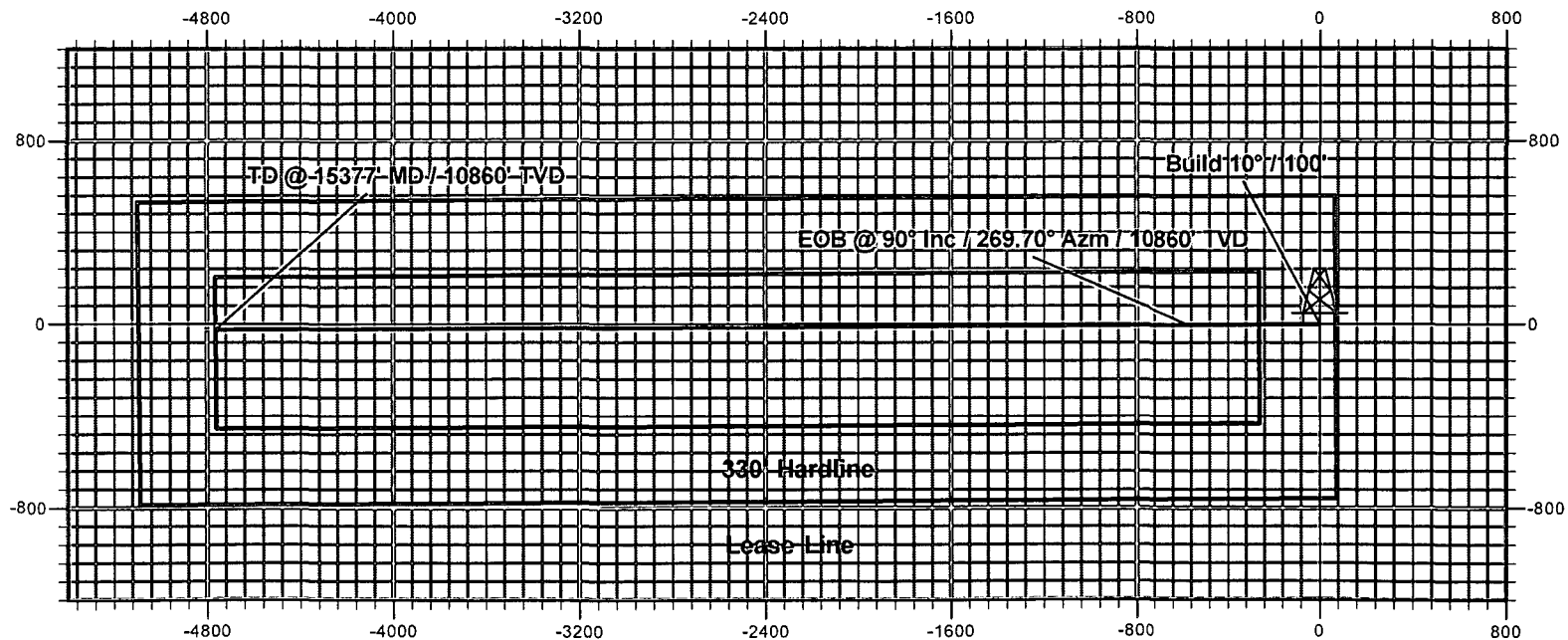
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL Coop 6 State #	0.00	0.00	10,860.0	-25.2	-4,762.5	519,606.80	720,634.90	32° 25' 35.339 N	103° 37' 5.787 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,287.0	10,287.0	0.0	0.0	Build 10° / 100'
11,187.0	10,860.0	-3.0	-572.9	EOB @ 90° Inc / 269.70° Azm / 10860' TVD
15,376.6	10,860.0	-25.2	-4,762.5	TD @ 15377' MD / 10860' TVD

Amtex Energy Inc.

Lea County, New Mexico
Coop 6 State #1H
Quote 130397
Design #1



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