

HOBBS OCD

Form 3160-3
(March 2012)

APR 26 2013

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NM-117557 / VB-1464

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No. 39850
CAPROCK 27 STATE FED COM 1H

9. API Well No.

30-025-41148

10. Field and Pool, or Exploratory

BONE SPRING (960)

11. Sec., T. R. M. or Blk. and Survey or Area
SECTION 27, T. 18 S., R. 34 E.12. County or Parish
LEA13. State
NM1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, L.P.

3a. Address 333 W. SHERIDAN
OKLAHOMA CITY, OKLAHOMA3b. Phone No. (include area code)
405-552-4524

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At surface 420 FSL & 1980 FWL

At proposed prod. zone 330 FNL & 1980 FWL

14. Distance in miles and direction from nearest town or post office*
15 MILES SOUTHEAST OF MALJAMAR, NM15. Distance from proposed* 330'
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)16. No. of acres in lease
FED: 240
STATE: 16017. Spacing Unit dedicated to this well
16018. Distance from proposed location* BHL: 21'
to nearest well, drilling, completed,
applied for, on this lease, ft.19. Proposed Depth
MD: 14,406' TVD: 10,120'
TVD: 10,500' (Pilot Hole)20. BLM/BIA Bond No. on file
NMB-000801 CO-110421. Elevations (Show whether DF, KDB, RT, GL, etc.)
4008.4' GL

22. Approximate date work will start*

23. Estimated duration
30 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature

Name (Printed/Typed)
BARRY W. HUNT

Date

3/8/13

Title

PERMIT AGENT FOR DEVON ENERGY PRODUCTION COMPANY, L.P.

Approved by (Signature)

/s/George MacDonell

Name (Printed/Typed)

Date

APR 23 2013

Title

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

Capitan Controlled Water Basin

KZ
04/26/13Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

APR 29 2013

DEVON ENERGY PRODUCTION, L. P.
DRILLING PLAN

CAPROCK 27 STATE FED COM 1H

SHL: 420 FSL & 1980 FWL

BHL: 330 FNL & 1980 FWL

Section 27, T. 18 S., R. 34 E.

LEA County, NM

The elevation of the unprepared ground is 4008.4' feet above sea level.

The geologic name of the surface formation is Quaternary - Alluvium.

A rotary rig will be utilized to drill the well.

Proposed total depth is: MD: 14,406'. TVD: 10,120'.

Estimated tops of important geologic markers:

Quaternary -- Alluvium	Surface*
Rustler	1837'
Salado / Top of Salt	1944'
Base of Salt	3090'
Yates	3338'
Seven Rivers	3800'
Queen	4583'
Grayburg	5257'
San Andres	5880'
Cherry Canyon	6169'
Brushy Canyon	7200'
1st Bone Spring LM	7620'
1st Bone Spring SS	9120'
2 nd Bone Spring LM	9520'
2 nd Bone Spring SS	9720'
TVD	10,120' (130 degree F)
Pilot Hole TVD	10,800'

*Water anticipated at 80 feet.

Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:

Yates	Oil (1435 psi)
Queen	Oil (1971 psi)
Grayburg	Oil (2261 psi)
Delaware	Oil (2653 psi)
Bone Spring	Oil (3277 psi)
TVD	Oil BHP 4352 psi

Caprock 27 State Fed Com 1H- APD DRILLING PLAN
KKS 5-28-12

Revised 11-5-2012: added casing safety factors, excess cement percentages, & request for flex hose variance

Revised 11-13-2012: added excess cement statement

Revised 2-06-2013; added notes for mud monitoring system

Casing Program

<u>Hole Size</u>	<u>Hole Interval</u>	<u>OD Csg</u>	<u>Casing Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
17-1/2"	0 – 1,900	13-3/8"	0 – 1,900	54.5#	STC	J-55
12-1/4"	1,900 – 5,300	9-5/8"	0 – 5,300	40#	LTC	HCK-55
8-3/4"	5,300– 9,347	5-1/2"	0 – 9,347	17#	LTC	HCP-110
8-3/4"	9,347 – 14,406	5-1/2"	9,347 – 14,406	17#	BTC	HCP-110

MAXIMUM LATERAL TVD 10,120'

A pilot hole will be drilled to 10,500' and plugged back. The plug back cement specifications are listed in the Cementing section under "Pilot Hole Plug Back".

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
13-3/8", 54.5#, J-55, ST&C	1.27	3.07	4.96
9-5/8", 40#, HCK-55, LT&C	1.53	1.28	2.97
5-1/2" 17# HCP-110 LTC	1.58	2.25	1.82
5-1/2" 17# HCP-110 BTC	1.71	2.43	6.60

Mud Program:

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 – 1,900	8.4 – 9.0	30 – 34	N/C	FW
1,900– 5,300	9.6 – 10.0	28 – 32	N/C	Brine
5,300– 14,406	8.6 – 9.0	28 – 32	N/C-12	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

Pressure Control Equipment:

The BOP system used to drill the intermediate hole will consist of a 13-5/8" Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2, a 3M system will be installed and tested prior to drilling out the surface casing shoe.

The BOP system used to drill the production hole will consist of a 13-5/8" Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 a 3M system will be installed and tested prior to drilling out the intermediate casing shoe.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be

incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

Cementing Program (cement volumes based on Surface 100% excess, Intermediate on 50% excess and at least 25% excess on the Production.)

13-3/8"	Lead: 1125 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.1% Fresh Water, 13.5 ppg Yield: 1.75 cf/sk TOC @ surface 500 ft Tail: 515 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg Yield: 1.35 cf/sk
9-5/8"	Lead: 1100 sacks (65:35) Class C Cement:Poz (Fly Ash): + 5% bwow Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 6% bwoc Bentonite + 70.9% Fresh Water, 12.9 ppg Yield: 1.85 cf/sk TOC @ surface 1000 ft. Tail: 360 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Water, 14.8 ppg Yield: 1.33 cf/sk
5-1/2" Production	1st Stage Lead: 500 sacks (65:35) Class H Cement:Poz (Fly Ash) + 6% bwoc Bentonite + 0.2% bwoc HR-601 + 74.1% Fresh Water, 12.5 ppg Yield: 1.95 cf/sk 5500 ft. Tail: 1450 sacks (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg Yield: 1.22 cf/sk DV TOOL at 6000 ft 2nd Stage 1000 ft. Lead: 125 sacks Class C Cement + 3% bwoc Econolite + 0.125 lbs/sack Poly-E-Flake + 82.4% Fresh Water, 11.4 ppg Yield: 2.87 cf/sk 500 ft. Tail: 120 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water, 14.8 ppg Yield: 1.33cf/sk TOC @ 4800 ft TOC for All Strings: Surface: 0 Intermediate: 0 Production: 4800 ft

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.

incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

Cementing Program (cement volumes based on at least 25% excess)

Cementing Program

13-3/8" Surface Casing

FLUID SPECIFICATIONS

Spacer

20.0 bbls Fresh Water @ 8.34 ppg

<u>FLUID</u>	<u>VOLUME CU-FT</u>	<u>VOLUME FACTOR</u>	<u>AMOUNT AND TYPE OF CEMENT</u>
Lead Slurry	2036	1 1.97	= 1035 sacks (35:65) Poz (Fly Ash): Class C Cement + 5% bwoc Sodium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 1% bwoc Sodium Metasilicate + 5% bwoc MPA-5 + 101.3% Fresh Water
Tail Slurry	534	1 1.34	= 400 sacks Class C Cement + 1% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.2% Fresh Water

Displacement

280.3 bbls Mud @ 9 ppg

CEMENT PROPERTIES

	<u>SLURRY NO.1</u>	<u>SLURRY NO.2</u>
Slurry Weight (ppg)	12.80	14.80
Slurry Yield (cf/sack)	1.97	1.34
Amount of Mix Water (gps)	10.56	8.34
Estimated Pumping Time - 70 BC (HH:MM)	3:30	2:30
<u>COMPRESSIVE STRENGTH</u>		
72 hrs @ 80 ° F (psi)		2700
7 hrs @ 93 ° F (psi)		500
12 hrs @ 93 ° F (psi)	350	1000
17 hrs @ 93 ° F (psi)	500	
24 hrs @ 93 ° F (psi)	750	1800

ACTUAL CEMENT VOLUMES MAY VARY BASED ON FLUID CALIPER.

9-5/8" Intermediate

FLUID SPECIFICATIONS

Spacer

20.0 bbls Fresh Water @ 8.34 ppg

<u>FLUID</u>	<u>VOLUME CU-FT</u>	<u>VOLUME FACTOR</u>	<u>AMOUNT AND TYPE OF CEMENT</u>
Lead Slurry	2690	1.73	= 1555 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 1% bwoc Sodium Metasilicate + 89.7% Fresh Water
Tail Slurry	413	1.38	= 300 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 65.5% Fresh Water

Displacement

402.6 bbls Mud @ 10 ppg

CEMENT PROPERTIES

	<u>SLURRY NO.1</u>	<u>SLURRY NO.2</u>
Slurry Weight (ppg)	12.80	13.80
Slurry Yield (cfs/sack)	1.73	1.38
Amount of Mix Water (gps)	9.82	8.44
Estimated Pumping Time - 70 BC (HH:MM)	3:30	2:30

COMPRESSIVE STRENGTH

12 hrs @ 90 ° F (psi)	275	
24 hrs @ 90 ° F (psi)	975	
72 hrs @ 90 ° F (psi)	1800	
8 hrs @ 112 ° F (psi)		500
12 hrs @ 112 ° F (psi)		1400
24 hrs @ 112 ° F (psi)		2400

5-1/2" Production Casing

(DV Tool placed at 6,000')

FLUID SPECIFICATIONS

STAGE NO. 1

Spacer 10.0 bbls Fresh Water @ 8.34 ppg
 Spacer 1,500.0 gals Mud Clean II @ 8.45 ppg
 Spacer 10.0 bbls Fresh Water @ 8.34 ppg

FLUID	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	1541	1 2	= 770 sacks (35:65) Poz (Fly Ash):Class H Cement + 3% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 8% bwoc Bentonite + 0.7% bwoc FL-52A + 105.4% Fresh Water
Tail Slurry	1600	1 1.28	= 1250 sacks (50:50) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.5% bwoc FL-52 + 0.4% bwoc Sodium Metasilicate + 57.2% Fresh Water
Displacement			334.0 bbls Displacement Fluid

CEMENT PROPERTIES

	SLURRY NO.1	SLURRY NO.2
Slurry Weight (ppg)	12.50	14.20
Slurry Yield (cf/sack)	2.00	1.28
Amount of Mix Water (gps)	10.99	5.78
Estimated Pumping Time - 70 BC (HH:MM)	4:30	3:30
Free Water (mls) @ ° F @ 90 ° Angle		0.0
Fluid Loss (cc/30min) at 1000 psi and ° F		50.0
COMPRESSIVE STRENGTH		
12 hrs @ 150 ° F (psi)	300	600
24 hrs @ 150 ° F (psi)	650	1700
72 hrs @ 150 ° F (psi)	1100	2000

5-1/2" Production Casing Cont.

STAGE NO. 2

Spacer				20.0 bbls Fresh Water @ 8.34 ppg
Lead Slurry	1748	/	2.88	= 610 sacks Class C Cement + 1.6% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3% bwoc Sodium Metasilicate + 158.8% Fresh Water
Tail Slurry	208	/	1.37	= 150 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwoc Sodium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc MPA-5 + 65.3% Fresh Water

FLUID	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
-------	-----------------	------------------	---------------------------

Displacement 151.4 bbls Displacement Fluid

CEMENT PROPERTIES

	SLURRY NO.1	SLURRY NO.2
Slurry Weight (ppg)	11.40	13.80
Slurry Yield (cf/sack)	2.88	1.37
Amount of Mix Water (gps)	17.60	6.42
Estimated Pumping Time - 70 BC (HH:MM)	3:45	2:30
Free Water (mls) @ ° F @ 90 ° Angle		
Fluid Loss (cc/30min) at 1000 psi and ° F		

COMPRESSIVE STRENGTH

12 hrs @ 112 ° F (psi)	130	
24 hrs @ 112 ° F (psi)	300	
12 hrs @ 125 ° F (psi)		900
24 hrs @ 125 ° F (psi)		1800
72 hrs @ 125 ° F (psi)		2500

CEMENT VOLUMES MAY VARY BASED ON CALIPER.

TOC for All Strings:

Surface:	0'
Intermediate:	0'
Production:	2,100'

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.

Pilot Hole Plug Back

FLUID SPECIFICATIONS

Spacer			= 15.0 bbls Mud Clean II
PLUG NO.	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
1	478	1.18	= 405 sacks Class H Cement + 0.2% bwoc R-3 + 46.4% Fresh Water

CEMENT PROPERTIES

	PLUG NO.1
Slurry Weight (ppg)	15.60
Slurry Yield (cf/sack)	1.18
Amount of Mix Water (gps)	5.22
Estimated Pumping Time - 70 BC (HH:MM)	2:15
COMPRESSIVE STRENGTH	
12 hrs @ 143 ° F (psi)	4850
24 hrs @ 143 ° F (psi)	7100

PLUG GEOMETRY

	PLUG TOP		PLUG BOTTOM	
1	9547 ft	to	10500 ft	with 8.75 inch Open Hole PDSqT = 141 ° F PDST = 164 ° F

Mud Program:

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 – 1,900	8.4 – 9.0	30 – 34	N/C	FW
1,900– 5,300	9.6 – 10.0	28 – 32	N/C	Brine
5,300– 14,406	8.6 – 9.0	28 – 32	N/C-12	FW

Logging, Coring, and Testing Program:*See COA*

- a. Drill stem tests will be based on geological sample shows.
- b. If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- c. The open hole electrical logging program will be:
 1. Total depth to intermediate casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
 2. Total Depth to Surface Compensated Neutron with Gamma Ray.
 3. No coring program is planned.
 4. Additional testing will be initiated subsequent to setting the 5 ½" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 13.375" casing shoe until the 5.5" casing is cemented. Breathing equipment will be on location upon drilling the 13.375" shoe until total depth is reached.

Potential Hazards:

No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area. If H₂S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP of 4,244 psi and estimated BHT 130°. No H₂S is anticipated to be encountered.

Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as a rig becomes available following BLM approval. Move in operations and drilling is expected to take 32 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

Project: Lea County, NM (NAD 83)
Site: Caprock
Well: Caprock 27 State Com 1H
Wellbore: Wellbore #1
Plan: Plan #1
Rig: H&P 223

SURFACE LOCATION

US State Plane 1983
 New Mexico Eastern Zone
 Elevation: GL 4008.4' + KB 25' @ 4033.40ft (H&P 223)
 Northing: 623871.50 Easting: 782175.10 Latitude: 32° 42' 45.427 N Longitude: 103° 33' 1.085 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9547.04	0.00	0.00	9547.04	0.00	0.00	0.00	0.00	0.00	KOP/Start Build
10447.04	90.00	359.45	10120.00	572.93	-5.49	10.00	359.45	572.96	End Build
14406.19	90.00	359.45	10120.00	4531.90	-43.40	0.00	0.00	4532.11	TD

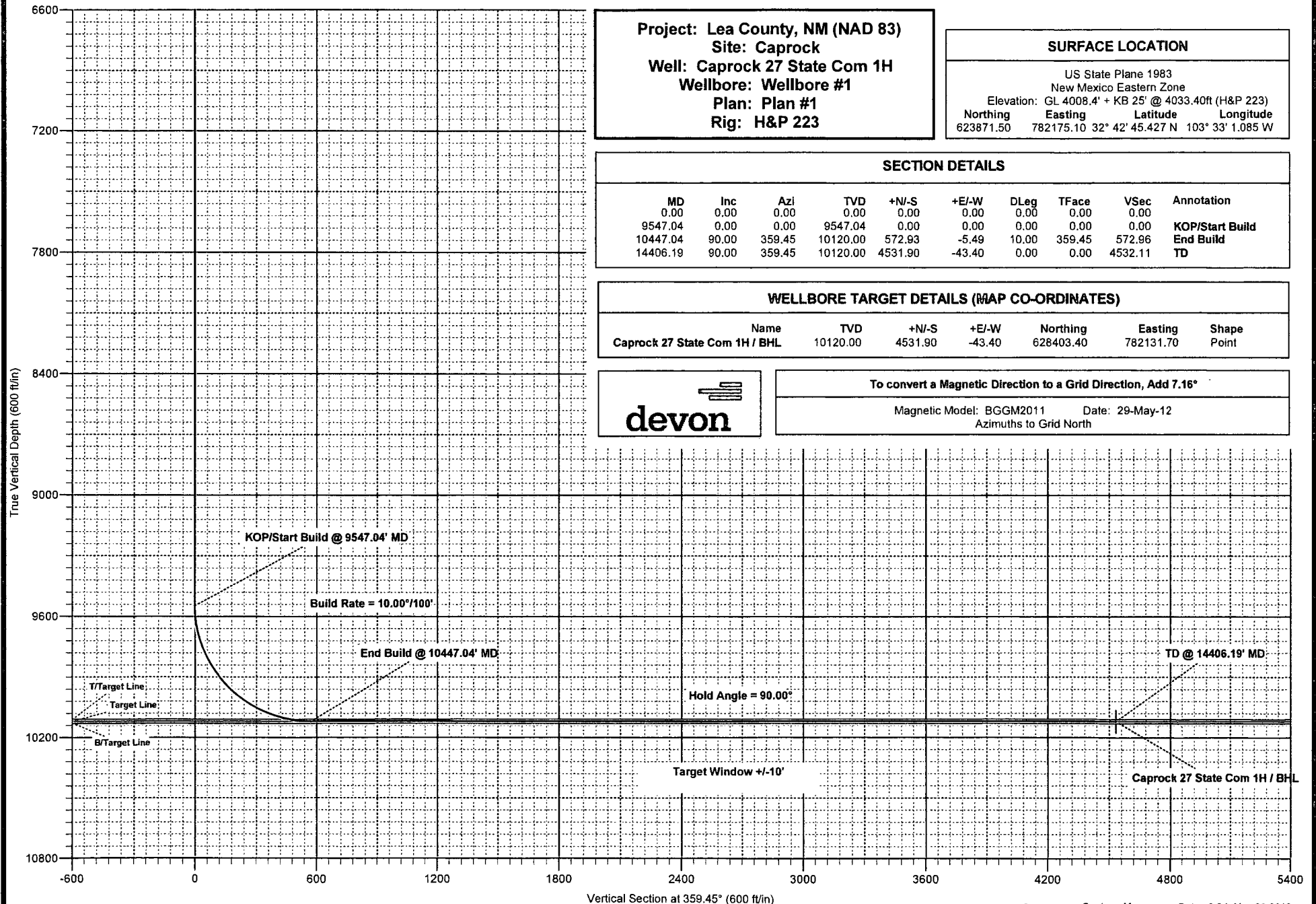
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Caprock 27 State Com 1H / BHL	10120.00	4531.90	-43.40	628403.40	782131.70	Point



To convert a Magnetic Direction to a Grid Direction, Add 7.16°

Magnetic Model: BGGM2011 Date: 29-May-12
 Azimuths to Grid North



Project: Lea County, NM (NAD 83)
Site: Caprock
Well: Caprock 27 State Com 1H
Wellbore: Wellbore #1
Plan: Plan #1
Rig: H&P 223

SURFACE LOCATION

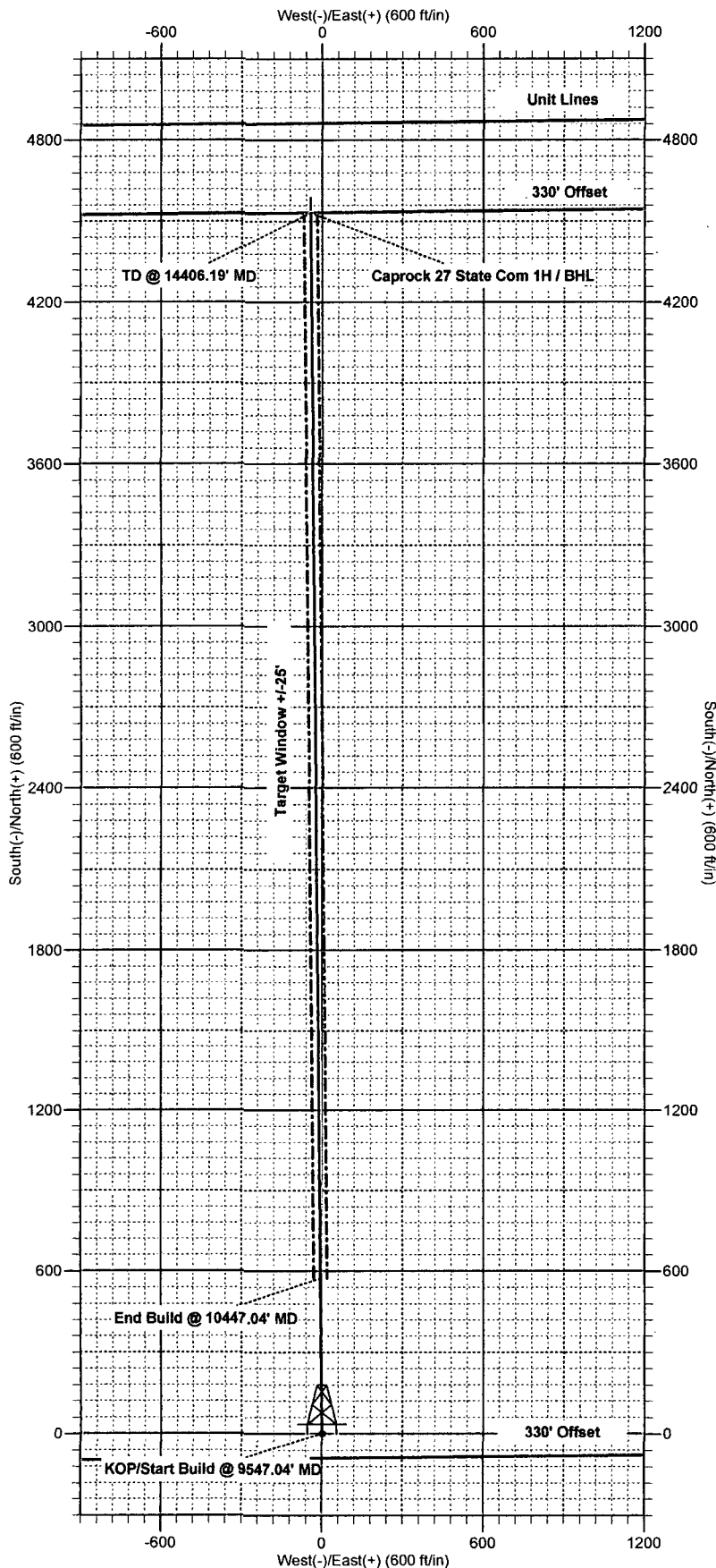
US State Plane 1983
 New Mexico Eastern Zone
 Elevation: GL 4008.4' + KB 25' @ 4033.40ft (H&P 223)

Northing	Easting	Latitude	Longitude
623871.50	782175.10	32° 42' 45.427 N	103° 33' 1.085 W

To convert a Magnetic Direction to a Grid Direction, Add 7.16°

Magnetic Model: BGGM2011 Date: 29-May-12
 Azimuths to Grid North

devon



Devon Energy Corporation

Lea County, NM (NAD 83)

Caprock

Caprock 27 State Com 1H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services

Proposal Report

29 May, 2012

Well Coordinates: 623,871.50 N, 782,175.10 E (32° 42' 45.43" N, 103° 33' 01.08" W)

Ground Level: 4,008.40 ft

Local Coordinate Origin:

Centered on Well Caprock 27 State Com 1H

Viewing Datum:

GL 4008.4' + KB 25' @ 4033.40ft (H&P 223)

TVDs to System:

N

North Reference:

Grid

Unit System:

API - US Survey Feet

Version: 2003.16 Build: 431

HALLIBURTON

HALLIBURTON

Plan Report for Caprock 27 State Com 1H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Plan Report for Caprock 27 State Com 1H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,547.04	0.00	0.00	9,547.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP/Start Build @ 9547.04' MD - Build Rate = 10.00°/100'										
9,550.00	0.30	359.45	9,550.00	0.01	0.00	0.01	10.00	10.00	0.00	359.45
9,600.00	5.30	359.45	9,599.92	2.45	-0.02	2.45	10.00	10.00	0.00	0.00
9,650.00	10.30	359.45	9,649.45	9.23	-0.09	9.23	10.00	10.00	0.00	0.00
9,700.00	15.30	359.45	9,698.19	20.30	-0.19	20.30	10.00	10.00	0.00	0.00
9,750.00	20.30	359.45	9,745.78	35.57	-0.34	35.57	10.00	10.00	0.00	0.00
9,800.00	25.30	359.45	9,791.86	54.94	-0.53	54.94	10.00	10.00	0.00	0.00
9,850.00	30.30	359.45	9,836.08	78.24	-0.75	78.25	10.00	10.00	0.00	0.00
9,900.00	35.30	359.45	9,878.10	105.32	-1.01	105.32	10.00	10.00	0.00	0.00
9,950.00	40.30	359.45	9,917.59	135.95	-1.30	135.95	10.00	10.00	0.00	0.00
10,000.00	45.30	359.45	9,954.27	169.90	-1.63	169.91	10.00	10.00	0.00	0.00
10,050.00	50.30	359.45	9,987.85	206.93	-1.98	206.94	10.00	10.00	0.00	0.00
10,100.00	55.30	359.45	10,018.07	246.74	-2.36	246.75	10.00	10.00	0.00	0.00
10,150.00	60.30	359.45	10,044.71	289.03	-2.77	289.04	10.00	10.00	0.00	0.00
10,200.00	65.30	359.45	10,067.56	333.48	-3.19	333.50	10.00	10.00	0.00	0.00
10,250.00	70.30	359.45	10,086.45	379.76	-3.64	379.78	10.00	10.00	0.00	0.00
10,300.00	75.30	359.45	10,101.24	427.50	-4.09	427.52	10.00	10.00	0.00	0.00
10,339.84	79.28	359.45	10,110.00	466.36	-4.47	466.38	10.00	10.00	0.00	0.00
T/Target Line										
10,350.00	80.30	359.45	10,111.80	476.36	-4.56	476.38	10.00	10.00	0.00	0.00
10,400.00	85.30	359.45	10,118.07	525.94	-5.04	525.97	10.00	10.00	0.00	0.00

HALLIBURTON

Plan Report for Caprock 27 State Com 1H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
10,447.04	90.00	359.45	10,120.00	572.93	-5.49	572.96	10.00	10.00	0.00	0.00
End Build @ 10447.04' MD - Hold Angle = 90.00° - Target Line										
10,500.00	90.00	359.45	10,120.00	625.89	-5.99	625.92	0.00	0.00	0.00	0.00
10,600.00	90.00	359.45	10,120.00	725.88	-6.95	725.92	0.00	0.00	0.00	0.00
10,700.00	90.00	359.45	10,120.00	825.88	-7.91	825.92	0.00	0.00	0.00	0.00
10,800.00	90.00	359.45	10,120.00	925.87	-8.87	925.92	0.00	0.00	0.00	0.00
10,900.00	90.00	359.45	10,120.00	1,025.87	-9.82	1,025.92	0.00	0.00	0.00	0.00
11,000.00	90.00	359.45	10,120.00	1,125.86	-10.78	1,125.92	0.00	0.00	0.00	0.00
11,100.00	90.00	359.45	10,120.00	1,225.86	-11.74	1,225.92	0.00	0.00	0.00	0.00
11,200.00	90.00	359.45	10,120.00	1,325.85	-12.70	1,325.92	0.00	0.00	0.00	0.00
11,300.00	90.00	359.45	10,120.00	1,425.85	-13.65	1,425.92	0.00	0.00	0.00	0.00
11,400.00	90.00	359.45	10,120.00	1,525.85	-14.61	1,525.92	0.00	0.00	0.00	0.00
11,500.00	90.00	359.45	10,120.00	1,625.84	-15.57	1,625.92	0.00	0.00	0.00	0.00
11,600.00	90.00	359.45	10,120.00	1,725.84	-16.53	1,725.92	0.00	0.00	0.00	0.00
11,700.00	90.00	359.45	10,120.00	1,825.83	-17.49	1,825.92	0.00	0.00	0.00	0.00
11,800.00	90.00	359.45	10,120.00	1,925.83	-18.44	1,925.92	0.00	0.00	0.00	0.00
11,900.00	90.00	359.45	10,120.00	2,025.82	-19.40	2,025.92	0.00	0.00	0.00	0.00
12,000.00	90.00	359.45	10,120.00	2,125.82	-20.36	2,125.92	0.00	0.00	0.00	0.00
12,100.00	90.00	359.45	10,120.00	2,225.81	-21.32	2,225.92	0.00	0.00	0.00	0.00
12,200.00	90.00	359.45	10,120.00	2,325.81	-22.27	2,325.92	0.00	0.00	0.00	0.00
12,300.00	90.00	359.45	10,120.00	2,425.80	-23.23	2,425.92	0.00	0.00	0.00	0.00
12,400.00	90.00	359.45	10,120.00	2,525.80	-24.19	2,525.92	0.00	0.00	0.00	0.00
12,500.00	90.00	359.45	10,120.00	2,625.80	-25.15	2,625.92	0.00	0.00	0.00	0.00
12,600.00	90.00	359.45	10,120.00	2,725.79	-26.10	2,725.92	0.00	0.00	0.00	0.00
12,700.00	90.00	359.45	10,120.00	2,825.79	-27.06	2,825.92	0.00	0.00	0.00	0.00
12,800.00	90.00	359.45	10,120.00	2,925.78	-28.02	2,925.92	0.00	0.00	0.00	0.00
12,900.00	90.00	359.45	10,120.00	3,025.78	-28.98	3,025.92	0.00	0.00	0.00	0.00
13,000.00	90.00	359.45	10,120.00	3,125.77	-29.93	3,125.92	0.00	0.00	0.00	0.00
13,100.00	90.00	359.45	10,120.00	3,225.77	-30.89	3,225.92	0.00	0.00	0.00	0.00
13,200.00	90.00	359.45	10,120.00	3,325.76	-31.85	3,325.92	0.00	0.00	0.00	0.00
13,300.00	90.00	359.45	10,120.00	3,425.76	-32.81	3,425.92	0.00	0.00	0.00	0.00
13,400.00	90.00	359.45	10,120.00	3,525.75	-33.76	3,525.92	0.00	0.00	0.00	0.00
13,500.00	90.00	359.45	10,120.00	3,625.75	-34.72	3,625.92	0.00	0.00	0.00	0.00
13,600.00	90.00	359.45	10,120.00	3,725.74	-35.68	3,725.92	0.00	0.00	0.00	0.00
13,700.00	90.00	359.45	10,120.00	3,825.74	-36.64	3,825.92	0.00	0.00	0.00	0.00
13,800.00	90.00	359.45	10,120.00	3,925.74	-37.60	3,925.92	0.00	0.00	0.00	0.00
13,900.00	90.00	359.45	10,120.00	4,025.73	-38.55	4,025.92	0.00	0.00	0.00	0.00
14,000.00	90.00	359.45	10,120.00	4,125.73	-39.51	4,125.92	0.00	0.00	0.00	0.00
14,100.00	90.00	359.45	10,120.00	4,225.72	-40.47	4,225.92	0.00	0.00	0.00	0.00
14,200.00	90.00	359.45	10,120.00	4,325.72	-41.43	4,325.92	0.00	0.00	0.00	0.00
14,300.00	90.00	359.45	10,120.00	4,425.71	-42.38	4,425.92	0.00	0.00	0.00	0.00
14,406.19	90.00	359.45	10,120.00	4,531.90	-43.40	4,532.11	0.00	0.00	0.00	0.00
TD @ 14406.19' MD - Caprock 27 State Com 1H / BHL										

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
9,547.04	9,547.04	0.00	0.00	KOP/Start Build @ 9547.04' MD
9,547.04	9,547.04	0.00	0.00	Build Rate = 10.00°/100'
10,447.04	10,120.00	572.93	-5.49	End Build @ 10447.04' MD
10,447.04	10,120.00	572.93	-5.49	Hold Angle = 90.00°
14,406.19	10,120.00	4,531.90	-43.40	TD @ 14406.19' MD

HALLIBURTON

Plan Report for Caprock 27 State Com 1H - Plan #1

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	Origin +E/-W (ft)	Start TVD (ft)
User	No Target (Freehand)	359.45	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	14,406.19	Plan #1	MWD

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	10,130.00	B/Target Line		0.00	359.45
10,339.84	10,110.00	T/Target Line		0.00	359.45
10,447.04	10,120.00	Target Line		0.00	359.45

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Caprock 27 State Com 1H / BHL	10,120.00	4,531.90	-43.40	Point

North Reference Sheet for Caprock - Caprock 27 State Com 1H - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GL 4008.4' + KB 25' @ 4033.40ft (H&P 223). Northing and Easting are relative to Caprock 27 State Com 1H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33°, Longitude Origin: 0° 0' 0.000 E°, Latitude Origin: 0° 0' 0.000 N°

False Easting: 541,337.50ft, False Northing: 0.00ft, Scale Reduction: 0.99997551

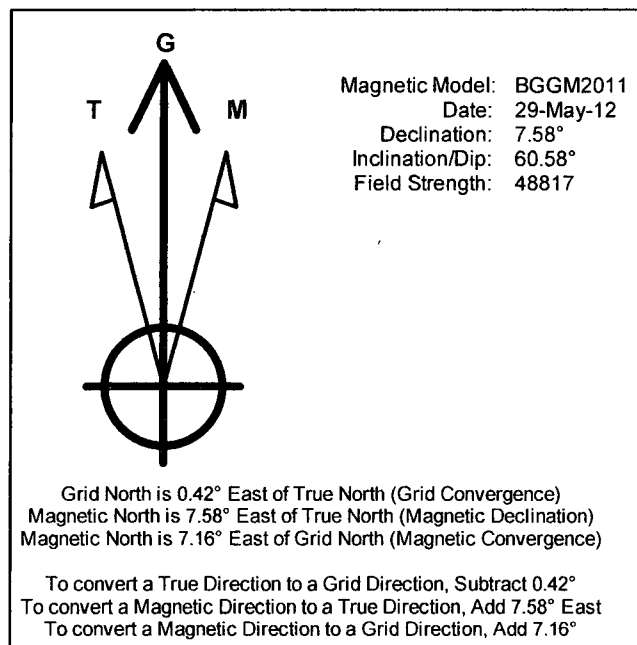
Grid Coordinates of Well: 623,871.50 ft N, 782,175.10 ft E

Geographical Coordinates of Well: 32° 42' 45.43" N, 103° 33' 01.08" W

Grid Convergence at Surface is: 0.42°

Based upon Minimum Curvature type calculations, at a Measured Depth of 14,406.19ft
the Bottom Hole Displacement is 4,532.11ft in the Direction of 359.45° (Grid).

Magnetic Convergence at surface is: -7.16° (29 May 2012, , BGGM2011)



Standard Survey

Company: Devon Energy Corporation
Project: Lea County
Site: Caprock
Well: Caprock 27 State Fed Com 1H
Wellbore: Wellbore #1
Design/Survey: Plan #1
North Reference Grid

MD ft	Inc °	Azi (Grid) °	TVDSS ft	TVD ft	N/S ft	E/W ft
0.00	0.00	0.00	-4033.40	0.00	0.00	0.00
100.00	0.00	0.00	-3933.40	100.00	0.00	0.00
200.00	0.00	0.00	-3833.40	200.00	0.00	0.00
300.00	0.00	0.00	-3733.40	300.00	0.00	0.00
400.00	0.00	0.00	-3633.40	400.00	0.00	0.00
500.00	0.00	0.00	-3533.40	500.00	0.00	0.00
600.00	0.00	0.00	-3433.40	600.00	0.00	0.00
700.00	0.00	0.00	-3333.40	700.00	0.00	0.00
800.00	0.00	0.00	-3233.40	800.00	0.00	0.00
900.00	0.00	0.00	-3133.40	900.00	0.00	0.00
1000.00	0.00	0.00	-3033.40	1000.00	0.00	0.00
1100.00	0.00	0.00	-2933.40	1100.00	0.00	0.00
1200.00	0.00	0.00	-2833.40	1200.00	0.00	0.00
1300.00	0.00	0.00	-2733.40	1300.00	0.00	0.00
1400.00	0.00	0.00	-2633.40	1400.00	0.00	0.00
1500.00	0.00	0.00	-2533.40	1500.00	0.00	0.00
1600.00	0.00	0.00	-2433.40	1600.00	0.00	0.00
1700.00	0.00	0.00	-2333.40	1700.00	0.00	0.00
1800.00	0.00	0.00	-2233.40	1800.00	0.00	0.00
1900.00	0.00	0.00	-2133.40	1900.00	0.00	0.00
2000.00	0.00	0.00	-2033.40	2000.00	0.00	0.00
2100.00	0.00	0.00	-1933.40	2100.00	0.00	0.00
2200.00	0.00	0.00	-1833.40	2200.00	0.00	0.00
2300.00	0.00	0.00	-1733.40	2300.00	0.00	0.00
2400.00	0.00	0.00	-1633.40	2400.00	0.00	0.00
2500.00	0.00	0.00	-1533.40	2500.00	0.00	0.00
2600.00	0.00	0.00	-1433.40	2600.00	0.00	0.00
2700.00	0.00	0.00	-1333.40	2700.00	0.00	0.00
2800.00	0.00	0.00	-1233.40	2800.00	0.00	0.00
2900.00	0.00	0.00	-1133.40	2900.00	0.00	0.00
3000.00	0.00	0.00	-1033.40	3000.00	0.00	0.00
3100.00	0.00	0.00	-933.40	3100.00	0.00	0.00
3200.00	0.00	0.00	-833.40	3200.00	0.00	0.00
3300.00	0.00	0.00	-733.40	3300.00	0.00	0.00
3400.00	0.00	0.00	-633.40	3400.00	0.00	0.00
3500.00	0.00	0.00	-533.40	3500.00	0.00	0.00
3600.00	0.00	0.00	-433.40	3600.00	0.00	0.00

3700.00	0.00	0.00	-333.40	3700.00	0.00	0.00
3800.00	0.00	0.00	-233.40	3800.00	0.00	0.00
3900.00	0.00	0.00	-133.40	3900.00	0.00	0.00
4000.00	0.00	0.00	-33.40	4000.00	0.00	0.00
4100.00	0.00	0.00	66.60	4100.00	0.00	0.00
4200.00	0.00	0.00	166.60	4200.00	0.00	0.00
4300.00	0.00	0.00	266.60	4300.00	0.00	0.00
4400.00	0.00	0.00	366.60	4400.00	0.00	0.00
4500.00	0.00	0.00	466.60	4500.00	0.00	0.00
4600.00	0.00	0.00	566.60	4600.00	0.00	0.00
4700.00	0.00	0.00	666.60	4700.00	0.00	0.00
4800.00	0.00	0.00	766.60	4800.00	0.00	0.00
4900.00	0.00	0.00	866.60	4900.00	0.00	0.00
5000.00	0.00	0.00	966.60	5000.00	0.00	0.00
5100.00	0.00	0.00	1066.60	5100.00	0.00	0.00
5200.00	0.00	0.00	1166.60	5200.00	0.00	0.00
5300.00	0.00	0.00	1266.60	5300.00	0.00	0.00
5400.00	0.00	0.00	1366.60	5400.00	0.00	0.00
5500.00	0.00	0.00	1466.60	5500.00	0.00	0.00
5600.00	0.00	0.00	1566.60	5600.00	0.00	0.00
5700.00	0.00	0.00	1666.60	5700.00	0.00	0.00
5800.00	0.00	0.00	1766.60	5800.00	0.00	0.00
5900.00	0.00	0.00	1866.60	5900.00	0.00	0.00
6000.00	0.00	0.00	1966.60	6000.00	0.00	0.00
6100.00	0.00	0.00	2066.60	6100.00	0.00	0.00
6200.00	0.00	0.00	2166.60	6200.00	0.00	0.00
6300.00	0.00	0.00	2266.60	6300.00	0.00	0.00
6400.00	0.00	0.00	2366.60	6400.00	0.00	0.00
6500.00	0.00	0.00	2466.60	6500.00	0.00	0.00
6600.00	0.00	0.00	2566.60	6600.00	0.00	0.00
6700.00	0.00	0.00	2666.60	6700.00	0.00	0.00
6800.00	0.00	0.00	2766.60	6800.00	0.00	0.00
6900.00	0.00	0.00	2866.60	6900.00	0.00	0.00
7000.00	0.00	0.00	2966.60	7000.00	0.00	0.00
7100.00	0.00	0.00	3066.60	7100.00	0.00	0.00
7200.00	0.00	0.00	3166.60	7200.00	0.00	0.00
7300.00	0.00	0.00	3266.60	7300.00	0.00	0.00
7400.00	0.00	0.00	3366.60	7400.00	0.00	0.00
7500.00	0.00	0.00	3466.60	7500.00	0.00	0.00
7600.00	0.00	0.00	3566.60	7600.00	0.00	0.00
7700.00	0.00	0.00	3666.60	7700.00	0.00	0.00
7800.00	0.00	0.00	3766.60	7800.00	0.00	0.00
7900.00	0.00	0.00	3866.60	7900.00	0.00	0.00
8000.00	0.00	0.00	3966.60	8000.00	0.00	0.00
8100.00	0.00	0.00	4066.60	8100.00	0.00	0.00
8200.00	0.00	0.00	4166.60	8200.00	0.00	0.00
8300.00	0.00	0.00	4266.60	8300.00	0.00	0.00
8400.00	0.00	0.00	4366.60	8400.00	0.00	0.00
8500.00	0.00	0.00	4466.60	8500.00	0.00	0.00
8600.00	0.00	0.00	4566.60	8600.00	0.00	0.00
8700.00	0.00	0.00	4666.60	8700.00	0.00	0.00
8800.00	0.00	0.00	4766.60	8800.00	0.00	0.00

8900.00	0.00	0.00	4866.60	8900.00	0.00	0.00
9000.00	0.00	0.00	4966.60	9000.00	0.00	0.00
9100.00	0.00	0.00	5066.60	9100.00	0.00	0.00
9200.00	0.00	0.00	5166.60	9200.00	0.00	0.00
9300.00	0.00	0.00	5266.60	9300.00	0.00	0.00
9400.00	0.00	0.00	5366.60	9400.00	0.00	0.00
9500.00	0.00	0.00	5466.60	9500.00	0.00	0.00
9547.04	0.00	0.00	5513.64	9547.04	0.00	0.00
9550.00	0.30	359.45	5516.60	9550.00	0.01	0.00
9600.00	5.30	359.45	5566.52	9599.92	2.45	-0.02
9650.00	10.30	359.45	5616.05	9649.45	9.23	-0.09
9700.00	15.30	359.45	5664.79	9698.19	20.30	-0.19
9750.00	20.30	359.45	5712.38	9745.78	35.57	-0.34
9800.00	25.30	359.45	5758.46	9791.86	54.94	-0.53
9850.00	30.30	359.45	5802.68	9836.08	78.24	-0.75
9900.00	35.30	359.45	5844.70	9878.10	105.32	-1.01
9950.00	40.30	359.45	5884.19	9917.59	135.95	-1.30
10000.00	45.30	359.45	5920.87	9954.27	169.90	-1.63
10050.00	50.30	359.45	5954.45	9987.85	206.93	-1.98
10100.00	55.30	359.45	5984.67	10018.07	246.74	-2.36
10150.00	60.30	359.45	6011.31	10044.71	289.03	-2.77
10200.00	65.30	359.45	6034.16	10067.56	333.48	-3.19
10250.00	70.30	359.45	6053.05	10086.45	379.76	-3.64
10300.00	75.30	359.45	6067.84	10101.24	427.50	-4.09
10350.00	80.30	359.45	6078.40	10111.80	476.36	-4.56
10400.00	85.30	359.45	6084.67	10118.07	525.94	-5.04
10447.04	90.00	359.45	6086.60	10120.00	572.93	-5.49
10500.00	90.00	359.45	6086.60	10120.00	625.89	-5.99
10600.00	90.00	359.45	6086.60	10120.00	725.88	-6.95
10700.00	90.00	359.45	6086.60	10120.00	825.88	-7.91
10800.00	90.00	359.45	6086.60	10120.00	925.87	-8.87
10900.00	90.00	359.45	6086.60	10120.00	1025.87	-9.82
11000.00	90.00	359.45	6086.60	10120.00	1125.86	-10.78
11100.00	90.00	359.45	6086.60	10120.00	1225.86	-11.74
11200.00	90.00	359.45	6086.60	10120.00	1325.85	-12.70
11300.00	90.00	359.45	6086.60	10120.00	1425.85	-13.65
11400.00	90.00	359.45	6086.60	10120.00	1525.85	-14.61
11500.00	90.00	359.45	6086.60	10120.00	1625.84	-15.57
11600.00	90.00	359.45	6086.60	10120.00	1725.84	-16.53
11700.00	90.00	359.45	6086.60	10120.00	1825.83	-17.49
11800.00	90.00	359.45	6086.60	10120.00	1925.83	-18.44
11900.00	90.00	359.45	6086.60	10120.00	2025.82	-19.40
12000.00	90.00	359.45	6086.60	10120.00	2125.82	-20.36
12100.00	90.00	359.45	6086.60	10120.00	2225.81	-21.32
12200.00	90.00	359.45	6086.60	10120.00	2325.81	-22.27
12300.00	90.00	359.45	6086.60	10120.00	2425.80	-23.23
12400.00	90.00	359.45	6086.60	10120.00	2525.80	-24.19
12500.00	90.00	359.45	6086.60	10120.00	2625.80	-25.15
12600.00	90.00	359.45	6086.60	10120.00	2725.79	-26.10
12700.00	90.00	359.45	6086.60	10120.00	2825.79	-27.06
12800.00	90.00	359.45	6086.60	10120.00	2925.78	-28.02
12900.00	90.00	359.45	6086.60	10120.00	3025.78	-28.98

13000.00	90.00	359.45	6086.60	10120.00	3125.77	-29.93
13100.00	90.00	359.45	6086.60	10120.00	3225.77	-30.89
13200.00	90.00	359.45	6086.60	10120.00	3325.76	-31.85
13300.00	90.00	359.45	6086.60	10120.00	3425.76	-32.81
13400.00	90.00	359.45	6086.60	10120.00	3525.75	-33.76
13500.00	90.00	359.45	6086.60	10120.00	3625.75	-34.72
13600.00	90.00	359.45	6086.60	10120.00	3725.74	-35.68
13700.00	90.00	359.45	6086.60	10120.00	3825.74	-36.64
13800.00	90.00	359.45	6086.60	10120.00	3925.74	-37.60
13900.00	90.00	359.45	6086.60	10120.00	4025.73	-38.55
14000.00	90.00	359.45	6086.60	10120.00	4125.73	-39.51
14100.00	90.00	359.45	6086.60	10120.00	4225.72	-40.47
14200.00	90.00	359.45	6086.60	10120.00	4325.72	-41.43
14300.00	90.00	359.45	6086.60	10120.00	4425.71	-42.38
14406.19	90.00	359.45	6086.60	10120.00	4531.90	-43.40

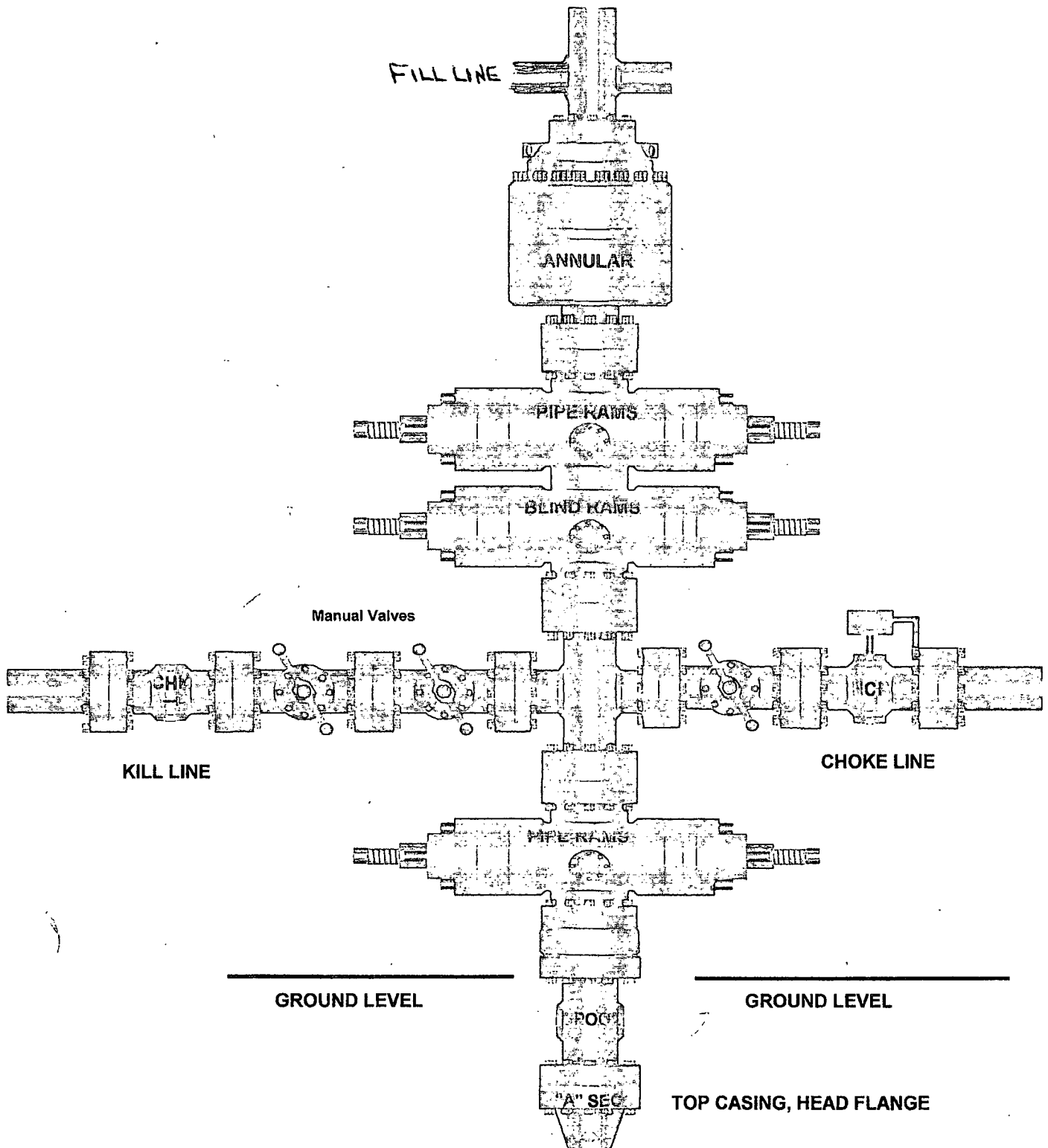
[illegible]

[illegible]

623871.50	782175.10	0.00	0.00
623871.50	782175.10	0.00	0.00
623871.50	782175.10	0.00	0.00
623871.50	782175.10	0.00	0.00
623871.50	782175.10	0.00	0.00
623871.50	782175.10	0.00	0.00
623871.50	782175.10	0.00	0.00
623871.50	782175.10	0.00	0.00
623871.51	782175.10	10.00	0.01
623873.95	782175.08	10.00	2.45
623880.73	782175.01	10.00	9.23
623891.80	782174.91	10.00	20.30
623907.07	782174.76	10.00	35.57
623926.44	782174.57	10.00	54.94
623949.74	782174.35	10.00	78.25
623976.82	782174.09	10.00	105.32
624007.45	782173.80	10.00	135.95
624041.41	782173.47	10.00	169.91
624078.43	782173.12	10.00	206.94
624118.24	782172.74	10.00	246.75
624160.53	782172.33	10.00	289.04
624204.98	782171.91	10.00	333.50
624251.26	782171.46	10.00	379.78
624299.01	782171.01	10.00	427.52
624347.86	782170.54	10.00	476.38
624397.44	782170.06	10.00	525.97
624444.43	782169.61	10.00	572.96
624497.39	782169.11	0.00	625.92
624597.38	782168.15	0.00	725.92
624697.38	782167.19	0.00	825.92
624797.37	782166.23	0.00	925.92
624897.37	782165.28	0.00	1025.92
624997.36	782164.32	0.00	1125.92
625097.36	782163.36	0.00	1225.92
625197.36	782162.40	0.00	1325.92
625297.35	782161.45	0.00	1425.92
625397.35	782160.49	0.00	1525.92
625497.34	782159.53	0.00	1625.92
625597.34	782158.57	0.00	1725.92
625697.33	782157.62	0.00	1825.92
625797.33	782156.66	0.00	1925.92
625897.32	782155.70	0.00	2025.92
625997.32	782154.74	0.00	2125.92
626097.31	782153.78	0.00	2225.92
626197.31	782152.83	0.00	2325.92
626297.30	782151.87	0.00	2425.92
626397.30	782150.91	0.00	2525.92
626497.30	782149.95	0.00	2625.92
626597.29	782149.00	0.00	2725.92
626697.29	782148.04	0.00	2825.92
626797.28	782147.08	0.00	2925.92
626897.28	782146.12	0.00	3025.92

626997.27	782145.17	0.00	3125.92
627097.27	782144.21	0.00	3225.92
627197.26	782143.25	0.00	3325.92
627297.26	782142.29	0.00	3425.92
627397.25	782141.34	0.00	3525.92
627497.25	782140.38	0.00	3625.92
627597.25	782139.42	0.00	3725.92
627697.24	782138.46	0.00	3825.92
627797.24	782137.51	0.00	3925.92
627897.23	782136.55	0.00	4025.92
627997.23	782135.59	0.00	4125.92
628097.22	782134.63	0.00	4225.92
628197.22	782133.68	0.00	4325.92
628297.21	782132.72	0.00	4425.92
628403.40	782131.70	0.00	4532.11

13-5/8" x 3,000 psi BOP Stack



Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP

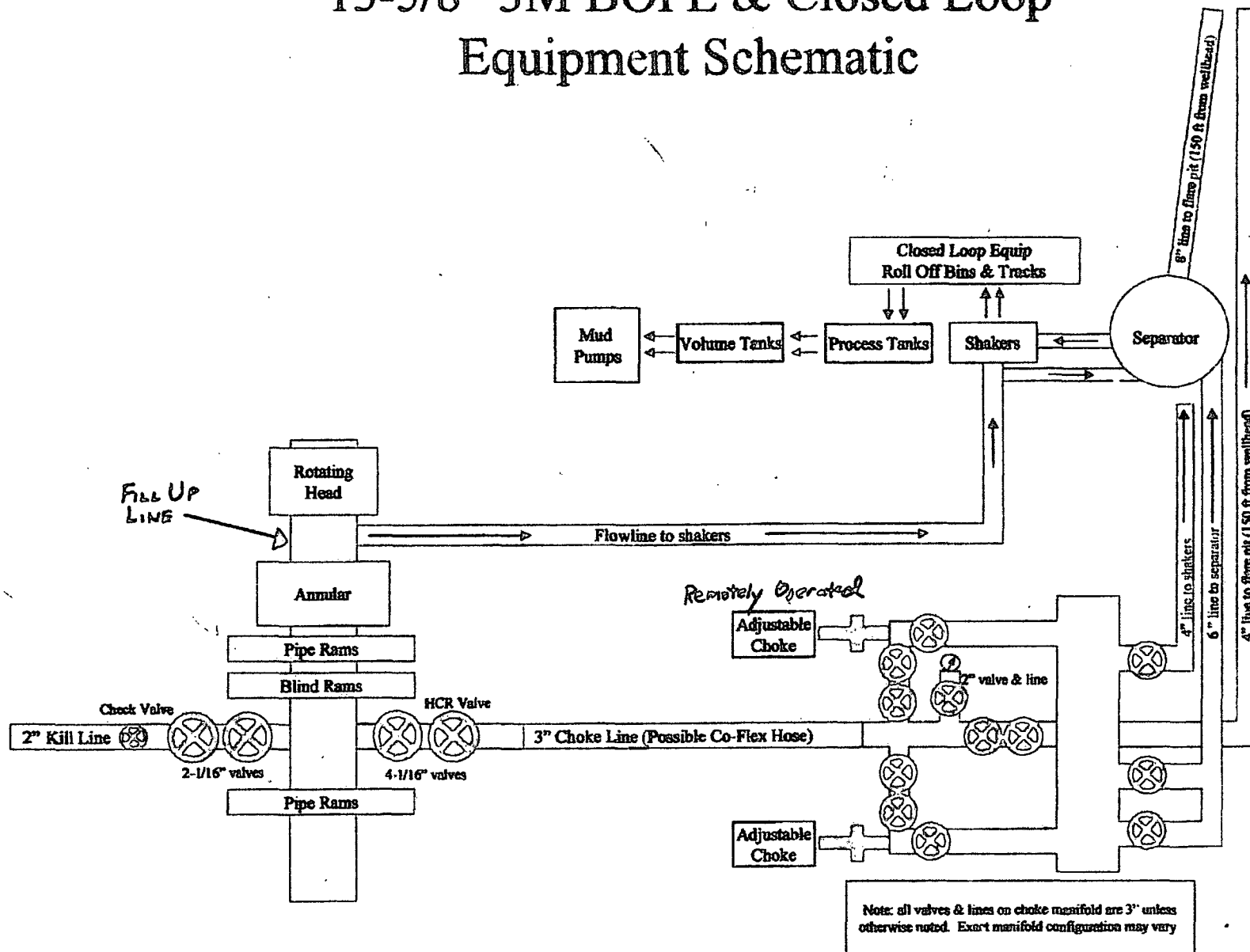
Caprock 27 State Fed Com 1H

Surface Location: 420' FSL & 1980' FWL, Unit N, Sec 27 T18S R34E, Lea, NM

Bottom Hole Location: 330' FNL & 1980' FWL, Unit C, Sec 25 T18S R34E, Lea, NM

1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 5000 psi working pressure.
4. All fittings will be flanged.
5. A full bore safety valve tested to a minimum 5000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a kelly cock attached to the kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operation.
10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

13-5/8" 3M BOPE & Closed Loop Equipment Schematic



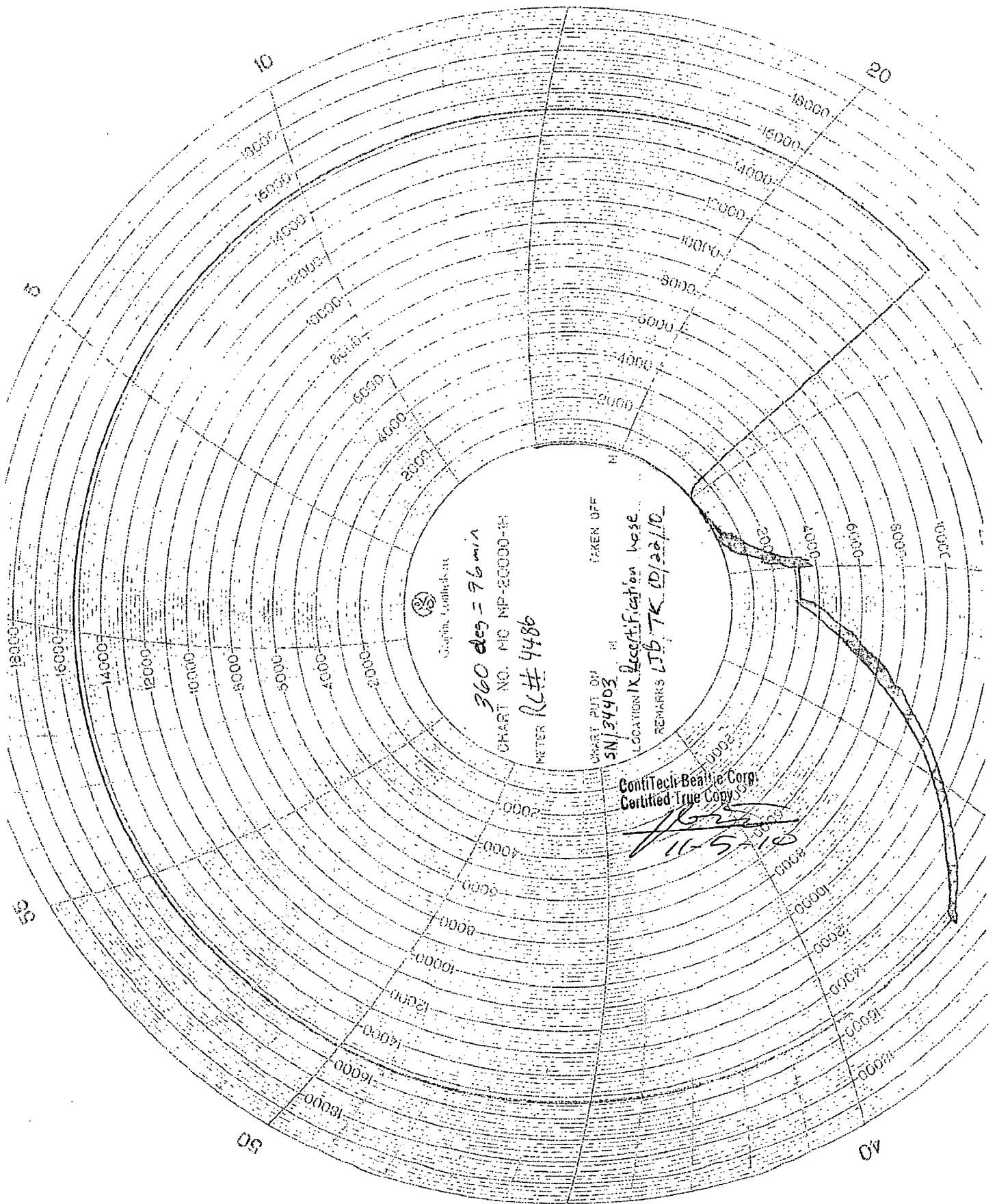
Hydrostatic Test Certificate

Certificate Number: 4520	PBC No: 10321	Customer Name & Address
Customer Purchase Order No: RIG 300		HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119
Project:		
Test Centre Address	Accepted by ContiTech Beattie Inspection	Accepted by Client Inspection
ContiTech Beattie Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Josh Sims Date: 10/27/10	

We certify that the goods detailed hereon have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industrial standards within the requirements of the purchase order as issued to ContiTech Beattie Corporation.

These goods were made in the United States of America.

Item	Part No.	Description	Qty	Serial Number	As-Built Length (m)	Work. Press.	Test Press.	Test Time (minutes)
1		3" ID 10K Choke & Kill Hose x 35ft OAL End A: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End B: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange Working Pressure: 10,000psi Test Pressure: 15,000psi Serial#: 49106	1	49106		10 kpsi	15 kpsi	60



ContiTech-Beattie Corp.
Certified True Copy

J. J. J.
11-5-10

H&P Flex Rig Location Layout

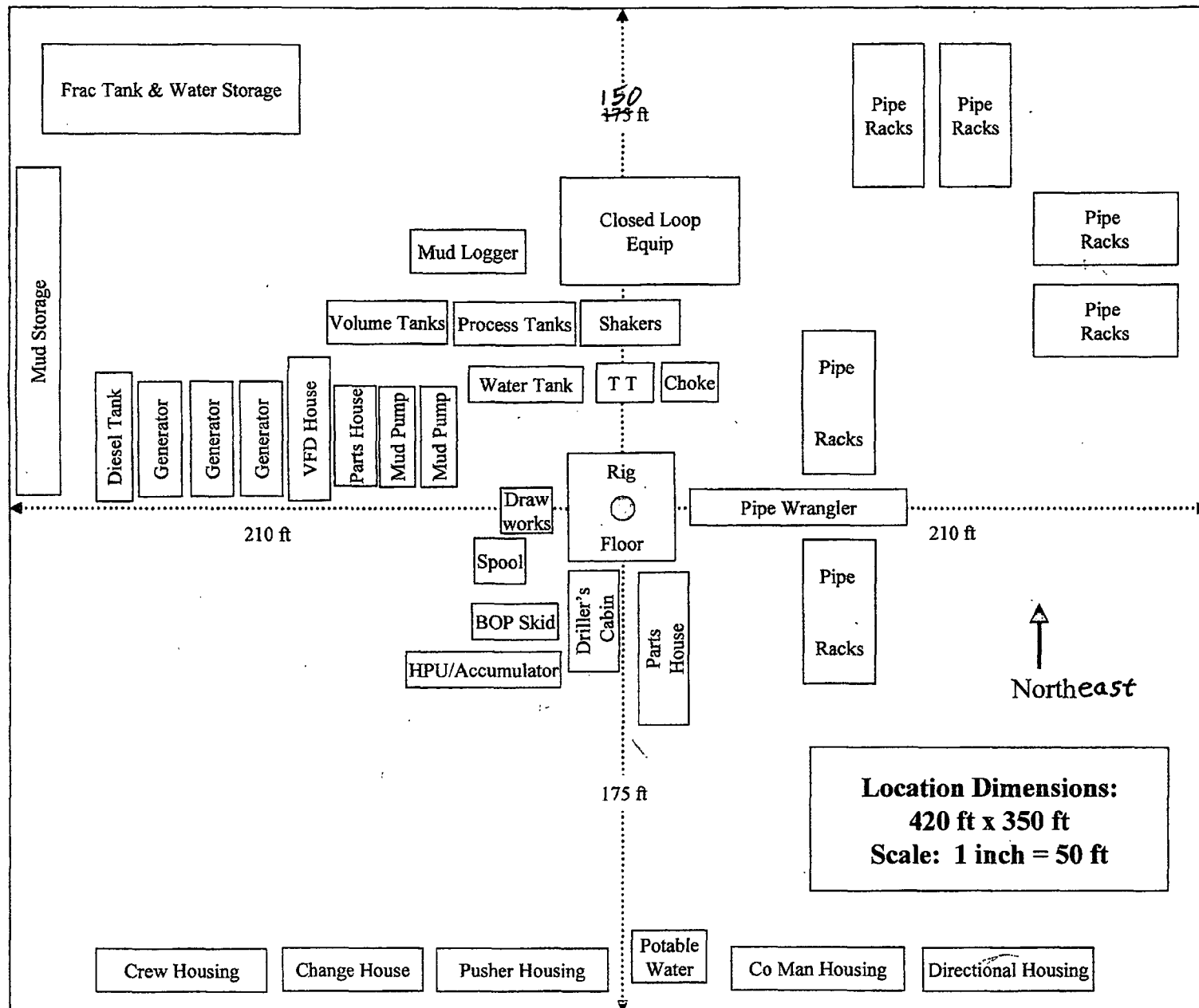


EXHIBIT 'D'

**PAD SIZE ONLY
CAPROCK 27 STATE FED COM 1H
V-DOOR SOUTHEAST**

NORTHEAST

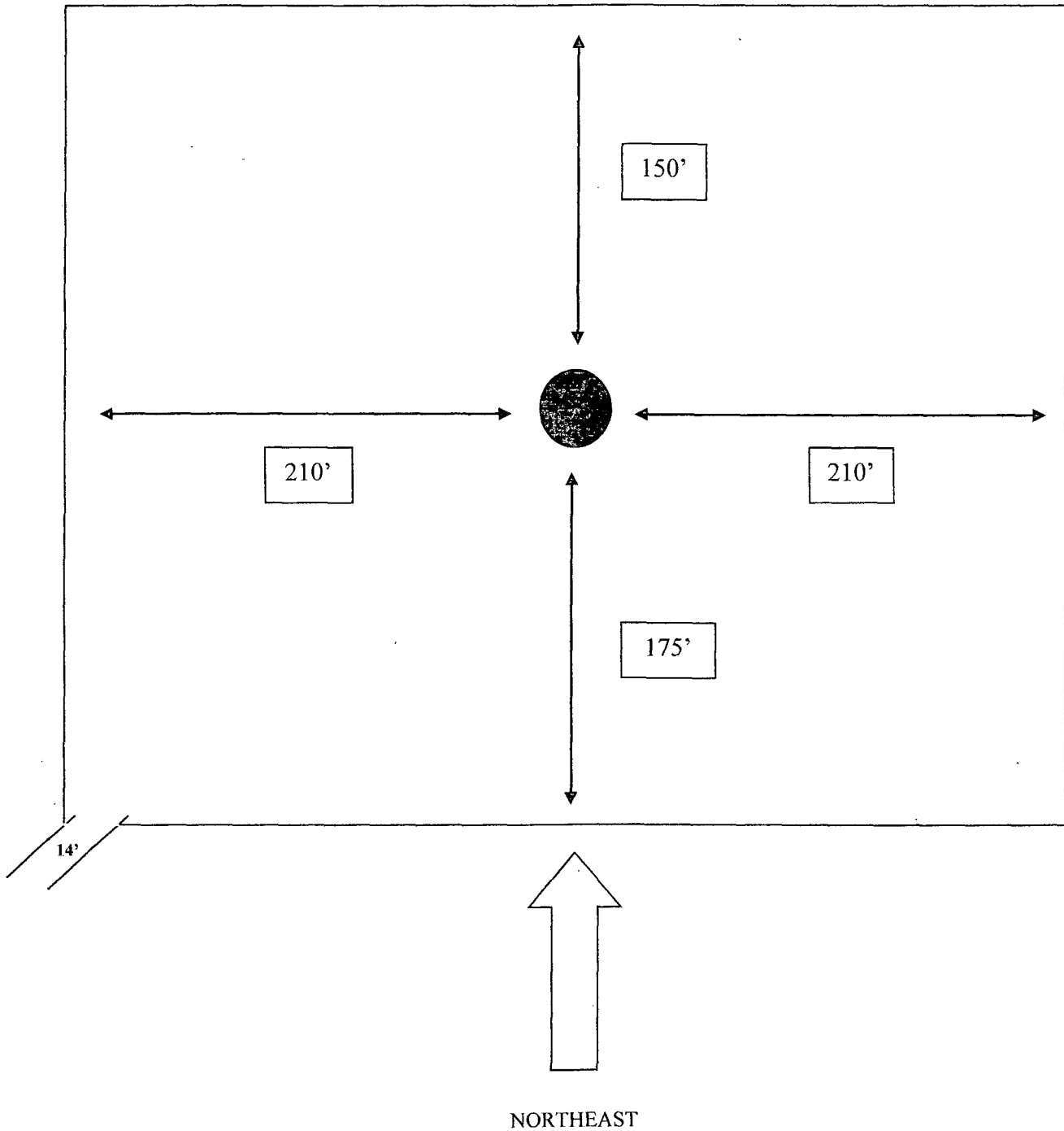
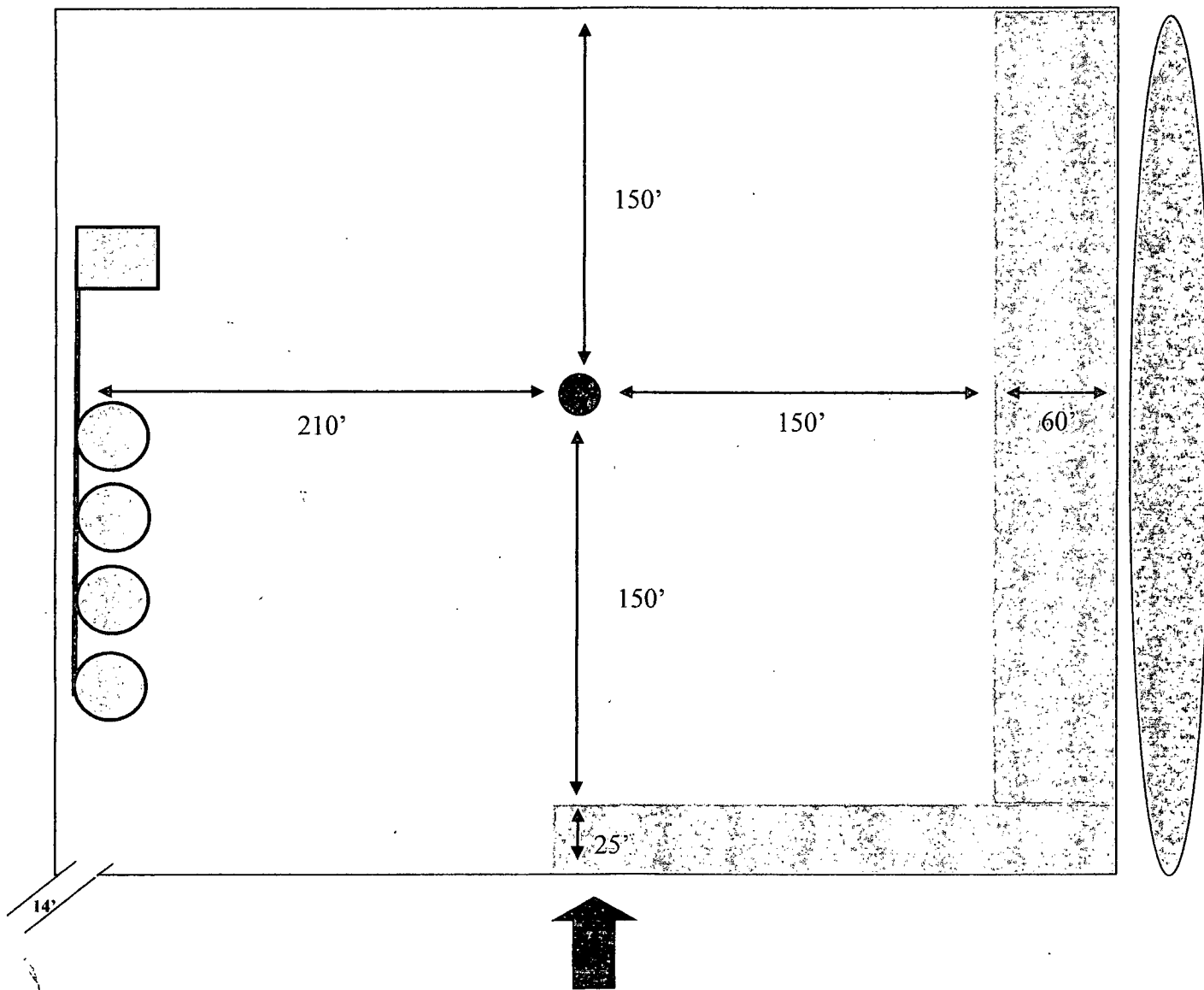


EXHIBIT C

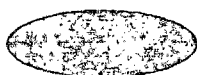
Interim Reclamation & Production Facilities CAPROCK 27 STATE FED COM 1H V-DOOR SOUTHEAST



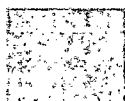
LEGEND



Well Bore



Topsoil



Interim Reclamation



Production Facilities



NORTH