

13-817

OCD Hobbs

Form 3160-3
(March 2012)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 20145. Lease Serial No.
NMNM 068821

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator Endurance Resources LLC

3a. Address P.O. Box 1466, Artesia, NM 88211

3b. Phone No. (include area code)
575.308.0722

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

At surface NE/NE 330' FNL & 660' FEL UNIT A

At proposed prod. zone SE/SE 330' FSL & 660' FEL UNIT P

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

8. Lease Name and Well No. **40167**
Telecaster 30 Fed 4H9. API Well No.
30-025-4145610. Field and Pool, or Exploratory
Bell Lake; Bone Spring **5130**11. Sec., T. R. M. or Blk. and Survey or Area
Sec 30-T23S-R34E14. Distance in miles and direction from nearest town or post office*
Approximately 25 miles northwest of Jal, NM12. County or Parish
Lea13. State
NM15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)
SHL 330'16. No. of acres in lease
633.7217. Spacing Unit dedicated to this well **HOBBS OCD**
160 acres18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.
1320' (Telecaster 30-3H)19. Proposed Depth
10,500 TVD; 14,867 MD20. BLM/BIA Bond No. on file
NMB00064021. Elevations (Show whether DF, KDB, RT, GL, etc.)
3593' GL22. Approximate date work will start*
07/01/201323. Estimated duration
45 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)
Kale Jackson

575.914.3355

Date

06/11/2013

Title

Sr. Completions Engineer

kale@enduranceresourcesllc.com

Approved by (Signature)

/S/ STEPHEN J. CAFFEY

Name (Printed/Typed)

Date

SEP 25 2013

Title

CARLSBAD FIELD OFFICE

Office

FIELD MANAGER

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.

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)

*(Instructions on page 2)

CARLSBAD CONTROLLED WATER BASIN

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVAL FOR TWO YEARS

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

OCT 22 2013

dm



Endurance Resources LLC

DRILLING & OPERATIONS PROGRAM

Telecaster 30 Fed 4H

SHL: 330' FNL & 660' FEL

BHL: 330' FSL & 660' FEL

Sec 30-23S-34E

Lea Co, NM

1. Geological Name of Surface Formation

Quaternary

2. Estimated Tops of Important Geological Markers

Fresh Water	311'
Rustler	1,040'
Top of Salt	1,650'
Base of Salt	4,454'
Lamar Limestone	5,100'
Delaware	5,150' Oil
Bone Spring	8,630'
1 st Bone Spring	9,750' Oil
2 nd Bone Spring	10,275' Oil
TVD: 10,500' ; MD: 14,867'	

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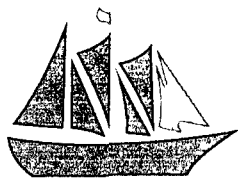
3. Estimated Depths of Anticipated Fresh Water, Oil or Gas

The estimated depths at which water, oil and gas will be encountered are as follows:

Water: Average depth to water: 311'. Minimum depth: 255'. Max: 430'. As reported from the New Mexico Office of the State Engineer website.

Oil & Gas: 5,150' – 10,500' (Delaware through Bone Spring)

No other formations are expected to give up oil, gas, or fresh water in measurable quantities.



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4. Proposed Casing Program:

Hole Size	Depths	Section	OD Casing	Wt	Collar	Grade	Collapse DF	Burst DF	Tension DF
17-1/2"	0' - 1,250'	Surface	13-3/8"	48	STC	H-40	1.125	1.125	1.6
12-1/4"	0' - 2,500'	Intermediate	9-5/8"	36	LTC	J-55	1.125	1.125	1.6
	2,500' - 5,100'			40	LTC	N-80	1.125	1.125	1.6
8-3/4"	0' - 9,750'	Production	5-1/2"	17	LTC	P-110	1.125	1.125	1.6
	9,750'-14,867'	Curve & Lateral		17	BTC	P-110	1.125	1.125	1.6

NOTE: ALL CASING IS NEW & API APPROVED. WHILE RUNNING CASING, PIPE WILL BE KEPT A MINIMUM OF 1/3 FULL AT ALL TIMES TO AVOID APPROACHING COLLAPSE PRESSURE OF THE CASING.

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5. Proposed Cement Program:

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a. 13-3/8" Surface

Lead: 450sks ExtendaCem-CZ (Class C) (13.5ppg / 1.75cuft/sk)

Tail: 415sks HalCem-C (Class C) + 2% CaCl (14.80ppg / 1.35cuft/sk)

**Calculated w/ 50% excess on OH volumes

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b. 9-5/8" Intermediate

Lead: 985sks EconoCem-HLC (Class C) +5% salt + 5 #/sk lost circulation additive (12.70ppg/ 1.97cuft/sk)

Tail: 175sks HalCem-C (Class C) +1% CaCl (14.80ppg/ 1.34cuft/sk)

**Calculated w/ 35% excess on OH volumes

c. 5-1/2" Production

Lead: 680sks VersaCem-H (Class H) +0.6% retarder +0.25#/sk defoamer (11.90ppg/ 2.25cuft/sk)

Tail: 620sks SoluCem-H (Class H) +0.4% retarder +0.25#/sk defoamer (15ppg/ 2.62cuft/sk)

**Calculated w/ 25% excess on OH volumes

NOTE: THE ABOVE CEMENT VOLUMES COULD BE REVISED PENDING FLUID CALIPER & CALIPER LOG DATA. ALL VOLUMES ARE DESIGNED TO CIRCULATE TO SURFACE.



6. Minimum Specifications for Pressure Control:

13-5/8 (5M) working pressure BOP system consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventer (please see BOP schematic). A 5M choke manifold & 120 gallon accumulator with floor and remote operating stations & auxiliary power system. Rotating head as needed. A Kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be NU and operated at least once a day while drilling and the blind rams will be operated when out of the hole during trips. From the base of the 13-3/8" csg through running of production casing, the well will be equipped with a 5M BOP system. Below the 9-5/8 csg shoe, this 5M system will be equipped with a HCR valve, remote kill line, & annular to match. The remote kill line will be installed prior to testing the system & tested to stack pressure.

Before drilling out of the 13-3/8 surface casing, BOP will be tested by an independent surface company to 250 psi low & 3000 psi high. Hydril will be tested to 250 psi low and 1500 psi high. Before drilling out the 9-5/8 intermediate shoe BOP will be tested by an independent service company to 250psi low and 5000 psi high. Hydril will be tested to 250 psi low and 2500 psi high. These low pressure tests from 250 to 300 psi will be held a minimum of 10 minutes if test is done with a test plug & 30 minutes without a test plug.

7. Estimated BHP:

4586 psi @ 10,500' TVD

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8. Mud Program: The applicable depths & properties of this system are as follows:

Depth	Type of System	Mud Weight	Viscosity (sec)	Waterloss (cc)
0' - 1,200' / 250'	Fresh Water	8.4	29	NC
1,200' - 5,100'	Brine	9.8 - 10.0	28-32	NC
5,100' - 14,867'	Cut Brine	8.6 - 9.2	28-32	NC-12

NOTE: NECESSARY MUD PRODUCTS FOR WEIGHT ADDITION & FLUID LOSS WILL BE ON LOCATION AT ALL TIMES. VISUAL MUD MONITORING EQUIPMENT (I.E. TRIP TANK) WILL BE IN PLACE TO DETECT VOLUME CHANGES INDICATING LOSS OR GAIN OF CIRCULATION VOLUME WITH ALARMS.

9. Auxiliary Well Control & Monitoring Equipment:

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times
- H2S detection equipment will be in operation & breathing apparatuses will be on location after the drill out of the 13-3/8" casing shoe until the 5-1/2" casing is cemented.

10. Testing, Logging & Coring Program:

- No drill stem tests are planned.
- GR/N well log ran from KOP to surface.
- Triple combo logs from KOP to intermediate casing shoe.
- No coring is planned.

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11. Potential Hazards:

No abnormal pressures or temperatures are expected. The existing Paloma 20-1 (20-23S-34E) has been producing in this prospective horizontal target area since 2011. If H2S is encountered, Endurance Resources LLC will comply with Onshore Order #6. Regardless, all personnel will be trained & qualified with H2S safety. Rig safety equipment will all also be checked daily once drill out of the 13-3/8" casing shoe to TD.



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12. Anticipated starting date & Duration of Operations:

Road & location construction will begin after the BLM has approved the APD. Anticipated spud date will begin after BLM approval & after a drilling rig is secured. Move in operations & drilling is expected to take no more than 45 days. An additional 30-50 days will be needed to complete this well & construct surface facilities and/or lay flow lines in order to place well on production. A battery will be built to handle this well, as well as 3 other potential new drills in this section.

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is

closed) (quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD		Q Q Q			Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
	Sub- Code	basin	64	16	4								
<u>CP 00556</u>	LE		4	4	3	08	23S	34E	641762	3576206	497	255	242
<u>CP 00580</u>	LE		3	4	3	23	23S	34E	646524	3572948*	220		
<u>CP 00606</u>	LE		4	1	23	23S	34E	646613	3573854*	650	265	385	
<u>CP 00618</u>	LE		1	2	4	22	23S	34E	645713	3573539*	428	295	133
<u>CP 00637</u>	LE		3	3	4	15	23S	34E	645293	3574541*	430	430	0
<u>CP 00872</u>	LE		1	1	1	08	23S	34E	641225	3577504*	500	305	195
<u>CP 01120 POD1</u>	LE		2	3	3	14	23S	34E	646366	3574753	397	318	79

Average Depth to Water: **311 feet**

Minimum Depth: **255 feet**

Maximum Depth: **430 feet**

Record Count: 7

Basin/County Search:

County: Lea

PLSS Search:

Township: 23S Range: 34E

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*UTM location was derived from PLSS - see Help

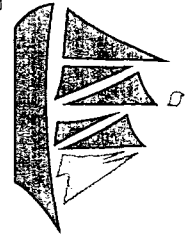
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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Sperry Drilling Services

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Project: Lea County, NM (NAD 83)
Site: Telecaster 30 Fed
Well: Telecaster 30 Fed #4H
Wellbore: Wellbore #1
Plan: Plan #1
Rig: Original Well Elev

SECTION DETAILS

MD	Inc	Azi	TVD	+N/S	+E/W	DLog	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9927.04	0.00	0.00	9927.04	0.00	0.00	0.00	0.00	0.00	Start Build
10827.04	90.00	179.48	10500.00	-572.93	5.16	10.00	179.48	572.96	End Build
14867.54	90.00	179.48	10500.00	-4613.27	41.55	0.00	0.00	4613.46	TD

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
Telecaster 30 Fed #4H PBHL	10500.00	-4613.27	41.55	462686.38	789061.28

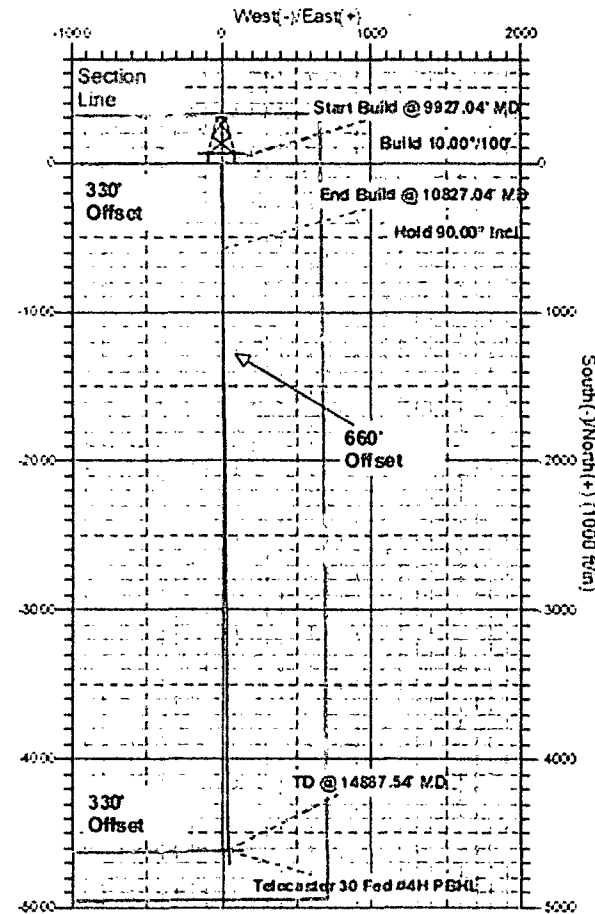
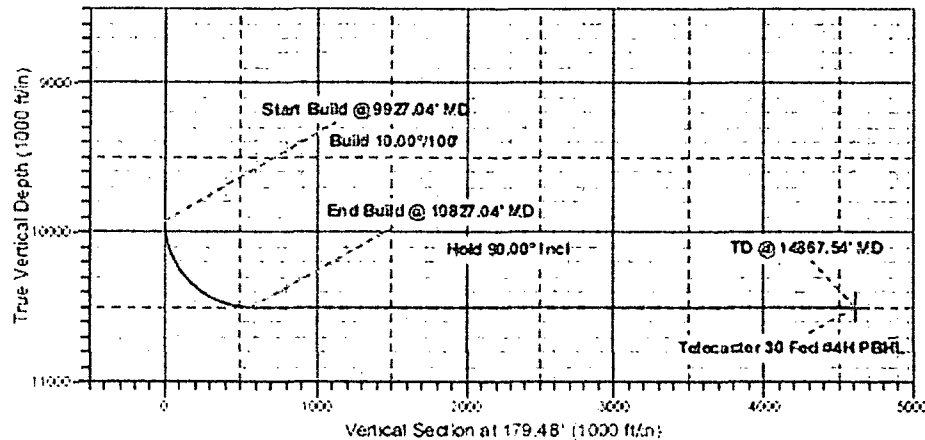
Surface Location

US State Plane 1983
New Mexico Eastern Zone
Elevation: GE 3593.4' + KB 77' @ 3618.40' (Original Well Elev)
Northing: 467288.60 Easting: 789019.73 Latitude: 32° 16' 55.007" N Longitude: 103° 30' 9.918" W



To convert a Magnetic Direction to a Grid Direction, Add 6.99°

Magnetic Model: BGGM2012 Data: 08-May-13
Azimuths to Grid North

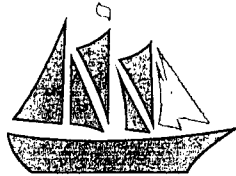


Drawn By: Mike Mirano

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Lea County, NM (NAD 83)
Telecaster 30 Fed
Telecaster 30 Fed #4H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Standard Report

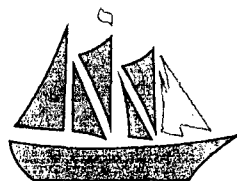
08 May, 2013

Well Coordinates: 467,298.65 N, 798,019.73 E (32° 16' 55.01" N, 103° 30' 09.92" W)
Ground Level: 3,593.40 ft

Local Coordinate Origin	Centered on Well Telecaster 30 Fed #4H
Viewing Datum:	GE 3593.4' - KB 77' @ 3518.40ft (Original Well Elev)
TVDs to System:	N
North Reference:	Grid
Unit System:	API - US Survey Feet

Version: 2003.16 Build: 431

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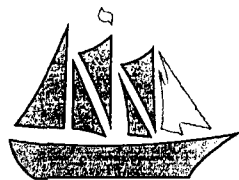
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Endurance Resources LLC

Lea County, NM (NAD 83)

Plan Report for Telecaster 30 Fed #4H - Plan #1

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



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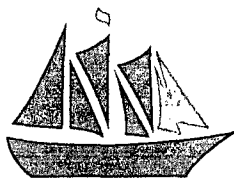
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Endurance Resources LLC
Lea County, NM (NAD 83)

Plan Report for Telecaster 30 Fed #4H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	-N/-S (ft)	-E/-W (ft)	Vertical Section (ft)	Dogleg Rate (%/100m)
5,000.00	0.00	0.00	5,000.00	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
5,200.00	0.00	0.00	5,200.00	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
5,400.00	0.00	0.00	5,400.00	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
5,600.00	0.00	0.00	5,600.00	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
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	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
6,100.00	0.00	0.00	6,100.00	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
6,300.00	0.00	0.00	6,300.00	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
6,500.00	0.00	0.00	6,500.00	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
6,700.00	0.00	0.00	6,700.00	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
6,900.00	0.00	0.00	6,900.00	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
7,100.00	0.00	0.00	7,100.00	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
7,300.00	0.00	0.00	7,300.00	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
7,500.00	0.00	0.00	7,500.00	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
7,700.00	0.00	0.00	7,700.00	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
7,900.00	0.00	0.00	7,900.00	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
8,100.00	0.00	0.00	8,100.00	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
8,300.00	0.00	0.00	8,300.00	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
8,500.00	0.00	0.00	8,500.00	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
8,700.00	0.00	0.00	8,700.00	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
8,900.00	0.00	0.00	8,900.00	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
9,100.00	0.00	0.00	9,100.00	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
9,300.00	0.00	0.00	9,300.00	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
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00



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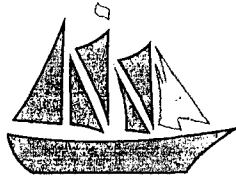
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Lea County, NM (NAD 83)

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Plan Report for Telecaster 30 Fed #4H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
9,927.04	0.00	0.00	9,927.04	0.00	0.00	0.00	0.00
Start Build @ 9927.04' MD - Build 10.00°/100'							
9,950.00	2.30	179.48	9,949.99	-0.46	0.00	0.46	10.00
10,000.00	7.30	179.48	9,999.80	-4.64	0.04	4.64	10.00
10,050.00	12.30	179.48	10,049.06	-13.14	0.12	13.14	10.00
10,100.00	17.30	179.48	10,097.39	-25.91	0.23	25.91	10.00
10,150.00	22.30	179.48	10,144.42	-42.83	0.39	42.84	10.00
10,200.00	27.30	179.48	10,189.79	-63.80	0.57	63.80	10.00
10,250.00	32.30	179.48	10,233.17	-85.63	0.80	86.64	10.00
10,300.00	37.30	179.48	10,274.21	-117.16	1.06	117.16	10.00
10,350.00	42.30	179.48	10,312.62	-149.15	1.34	149.15	10.00
10,400.00	47.30	179.48	10,348.09	-184.36	1.66	184.37	10.00
10,450.00	52.30	179.48	10,380.35	-222.54	2.00	222.55	10.00
10,500.00	57.30	179.48	10,409.17	-263.38	2.37	263.39	10.00
10,550.00	62.30	179.48	10,434.31	-306.58	2.76	306.59	10.00
10,600.00	67.30	179.48	10,455.60	-351.60	3.17	351.61	10.00
10,650.00	72.30	179.48	10,472.66	-398.71	3.59	398.72	10.00
10,700.00	77.30	179.48	10,485.97	-446.64	4.03	446.96	10.00
10,750.00	82.30	179.48	10,494.83	-496.13	4.47	496.15	10.00
10,800.00	87.30	179.48	10,499.36	-545.91	4.92	545.93	10.00
10,827.04	90.00	179.48	10,500.00	-572.54	5.16	572.96	10.00
End Build @ 10827.04' MD - Hold 90.00° Incl							
10,900.00	90.00	179.48	10,500.00	-645.89	5.82	645.92	0.00
11,000.00	90.00	179.48	10,500.00	-745.89	6.72	745.92	0.00
11,100.00	90.00	179.48	10,500.00	-845.88	7.62	845.92	0.00
11,200.00	90.00	179.48	10,500.00	-945.88	8.52	945.92	0.00
11,300.00	90.00	179.48	10,500.00	-1,045.88	9.42	1,045.92	0.00
11,400.00	90.00	179.48	10,500.00	-1,145.87	10.32	1,145.92	0.00
11,500.00	90.00	179.48	10,500.00	-1,245.87	11.22	1,245.92	0.00
11,600.00	90.00	179.48	10,500.00	-1,345.86	12.12	1,345.92	0.00
11,700.00	90.00	179.48	10,500.00	-1,445.86	13.02	1,445.92	0.00
11,800.00	90.00	179.48	10,500.00	-1,545.86	13.92	1,545.92	0.00
11,900.00	90.00	179.48	10,500.00	-1,645.85	14.82	1,645.92	0.00
12,000.00	90.00	179.48	10,500.00	-1,745.85	15.72	1,745.92	0.00
12,100.00	90.00	179.48	10,500.00	-1,845.84	16.62	1,845.92	0.00
12,200.00	90.00	179.48	10,500.00	-1,945.84	17.53	1,945.92	0.00
12,300.00	90.00	179.48	10,500.00	-2,045.83	18.43	2,045.92	0.00
12,400.00	90.00	179.48	10,500.00	-2,145.83	19.33	2,145.92	0.00
12,500.00	90.00	179.48	10,500.00	-2,245.83	20.23	2,245.92	0.00
12,600.00	90.00	179.48	10,500.00	-2,345.82	21.13	2,345.92	0.00
12,700.00	90.00	179.48	10,500.00	-2,445.82	22.03	2,445.92	0.00
12,800.00	90.00	179.48	10,500.00	-2,545.81	22.93	2,545.92	0.00
12,900.00	90.00	179.48	10,500.00	-2,645.81	23.83	2,645.92	0.00
13,000.00	90.00	179.48	10,500.00	-2,745.81	24.73	2,745.92	0.00
13,100.00	90.00	179.48	10,500.00	-2,845.80	25.63	2,845.92	0.00
13,200.00	90.00	179.48	10,500.00	-2,945.80	26.53	2,945.92	0.00
13,300.00	90.00	179.48	10,500.00	-3,045.79	27.43	3,045.92	0.00
13,400.00	90.00	179.48	10,500.00	-3,145.79	28.33	3,145.92	0.00
13,500.00	90.00	179.48	10,500.00	-3,245.79	29.23	3,245.92	0.00
13,600.00	90.00	179.48	10,500.00	-3,345.78	30.13	3,345.92	0.00
13,700.00	90.00	179.48	10,500.00	-3,445.78	31.03	3,445.92	0.00



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Plan Report for Telecaster 30 Fed #4H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	-N/-S (ft)	-E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
13,800.00	90.00	179.48	10,500.00	-3,545.77	31.94	3,545.92	0.00
13,900.00	90.00	179.48	10,500.00	-3,545.77	32.84	3,645.92	0.00
14,000.00	90.00	179.48	10,500.00	-3,745.77	33.74	3,745.92	0.00
14,100.00	90.00	179.48	10,500.00	-3,845.76	34.64	3,845.92	0.00
14,200.00	90.00	179.48	10,500.00	-3,945.76	35.54	3,945.92	0.00
14,300.00	90.00	179.48	10,500.00	-4,045.75	36.44	4,045.92	0.00
14,400.00	90.00	179.48	10,500.00	-4,145.75	37.34	4,145.92	0.00
14,500.00	90.00	179.48	10,500.00	-4,245.75	38.24	4,245.92	0.00
14,600.00	90.00	179.48	10,500.00	-4,345.74	39.14	4,345.92	0.00
14,700.00	90.00	179.48	10,500.00	-4,445.74	40.04	4,445.92	0.00
14,800.00	90.00	179.46	10,500.00	-4,545.73	40.94	4,545.92	0.00
14,867.54	90.00	179.48	10,500.00	-4,613.27	41.55	4,613.46	0.00

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates -N/-S (ft)	-E/-W (ft)	Comment
9,927.04	9,927.04	0.00	0.00	Start Build @ 9927.04' MD
9,927.04	9,927.04	0.00	0.00	Build 10.00°/100'
10,827.04	10,500.00	-572.93	5.16	End Build @ 10827.04' MD
10,827.04	10,500.00	-572.94	5.16	Hold 90.00° Incl
14,867.54	10,500.00	-4,613.27	41.55	TD @ 14867.54' MD

Vertical Section Information

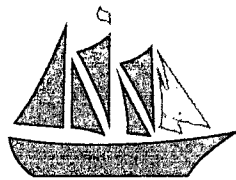
Angle Type	Target	Azimuth (°)	Origin Type	Origin -N/-S (ft)	-E/-W (ft)	Start TVD (ft)
User	No Target (Freehand)	179.46	Spot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	14,867.54	Plan #1	MWD+CC

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	-N/-S (ft)	-E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Telecaster 30 Fed #	0.00	0.00	10,500.00	-4,613.27	41.55	462,635.35	798,051.23	32° 15' 9.356 N	103° 30' 9.350 W
- plan n/s target center									
- Point									



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North Reference Sheet for Telecaster 30 Fed - Telecaster 30 Fed #4H - 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 GE 3593.4' + KB 77' @ 3618.40ft (Original Well Elev). Northing and Easting are relative to Telecaster 30 Fed #4H

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° 20' 0.000 W, Longitude Origin: 0° 0' 0.000 E, Latitude Origin: 0° 0' 0.000 N

False Easting: 541,337.56ft, False Northing: 0.00ft, Scale Reduction: 0.99998454

Grid Coordinates of Well: 467,298.65 ft N, 798,019.73 ft E

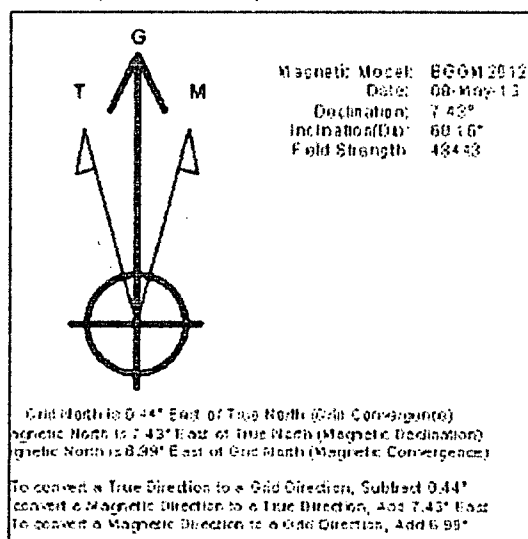
Geographical Coordinates of Well: 32° 16' 55.61" N, 103° 35' 09.92" W

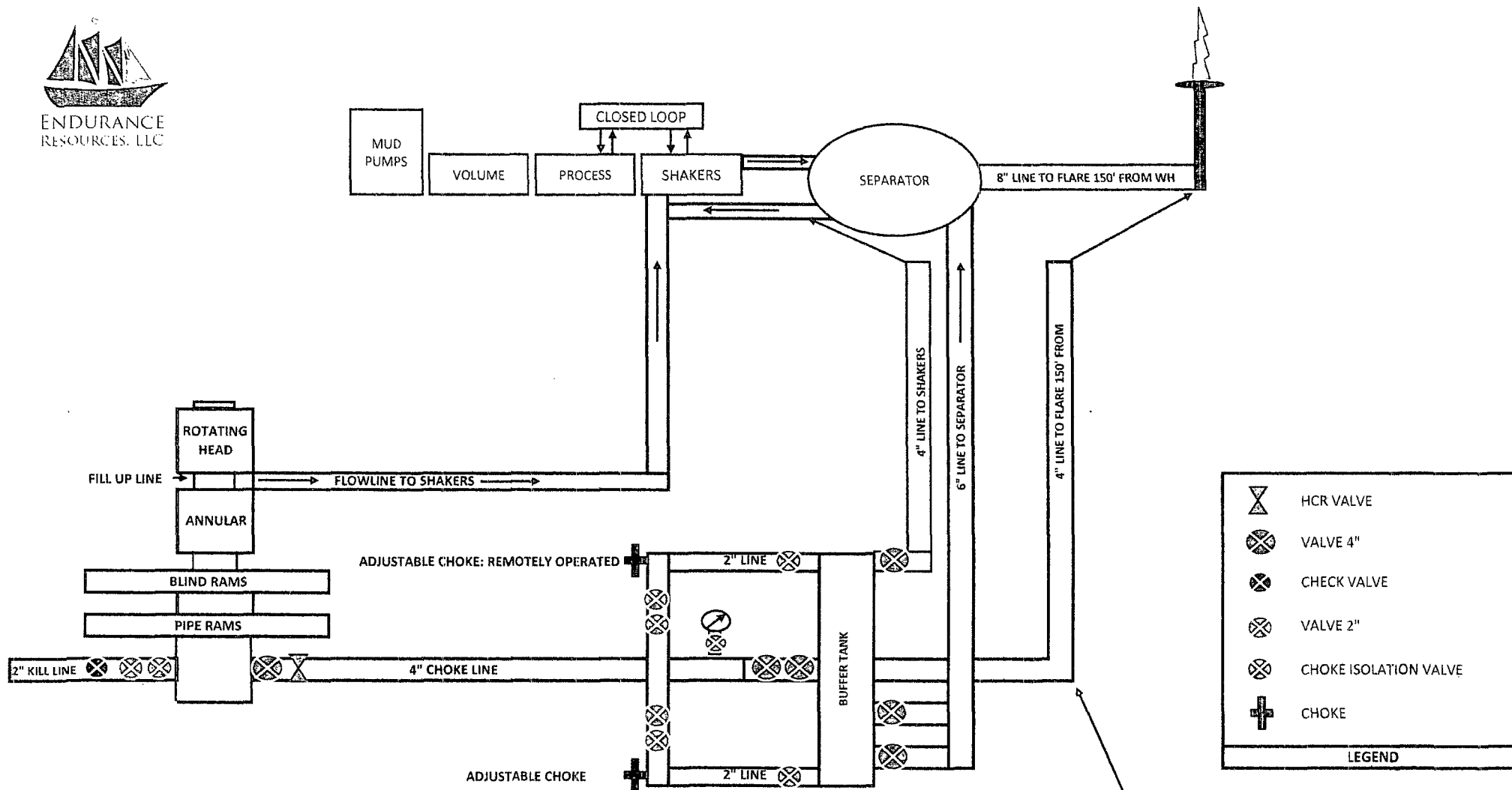
Grid Convergence at Surface is: 0.44°

Based upon Minimum Curvature type calculations, at a Measured Depth of 14,867.54ft

the Bottom Hole Displacement is 4,613.46ft in the Direction of 173.48° (Grid).

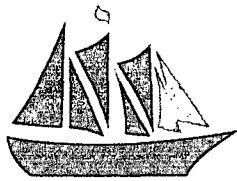
Magnetic Convergence at surface is: -6.99° (8 May 2013, , BGGM2012)



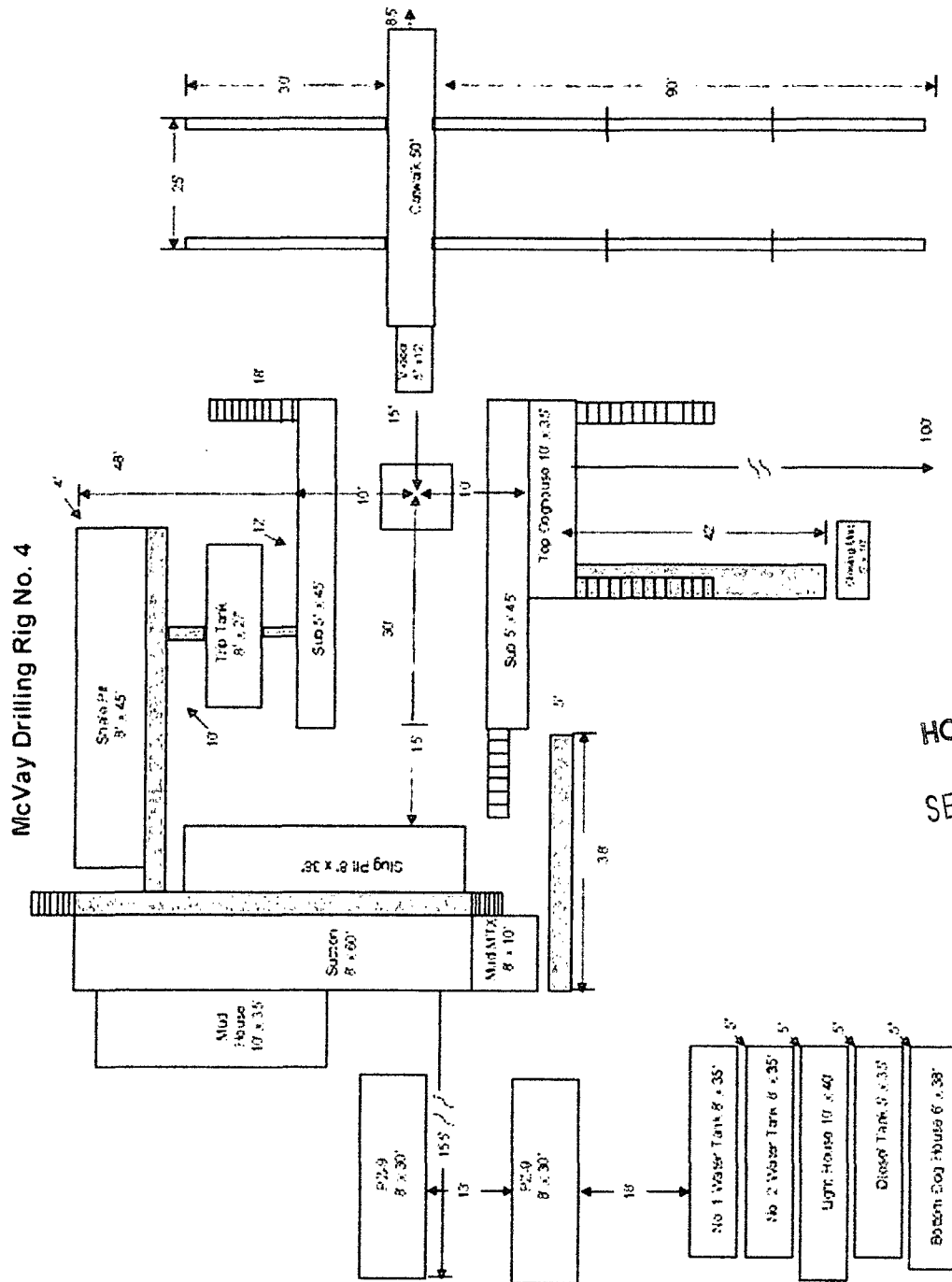


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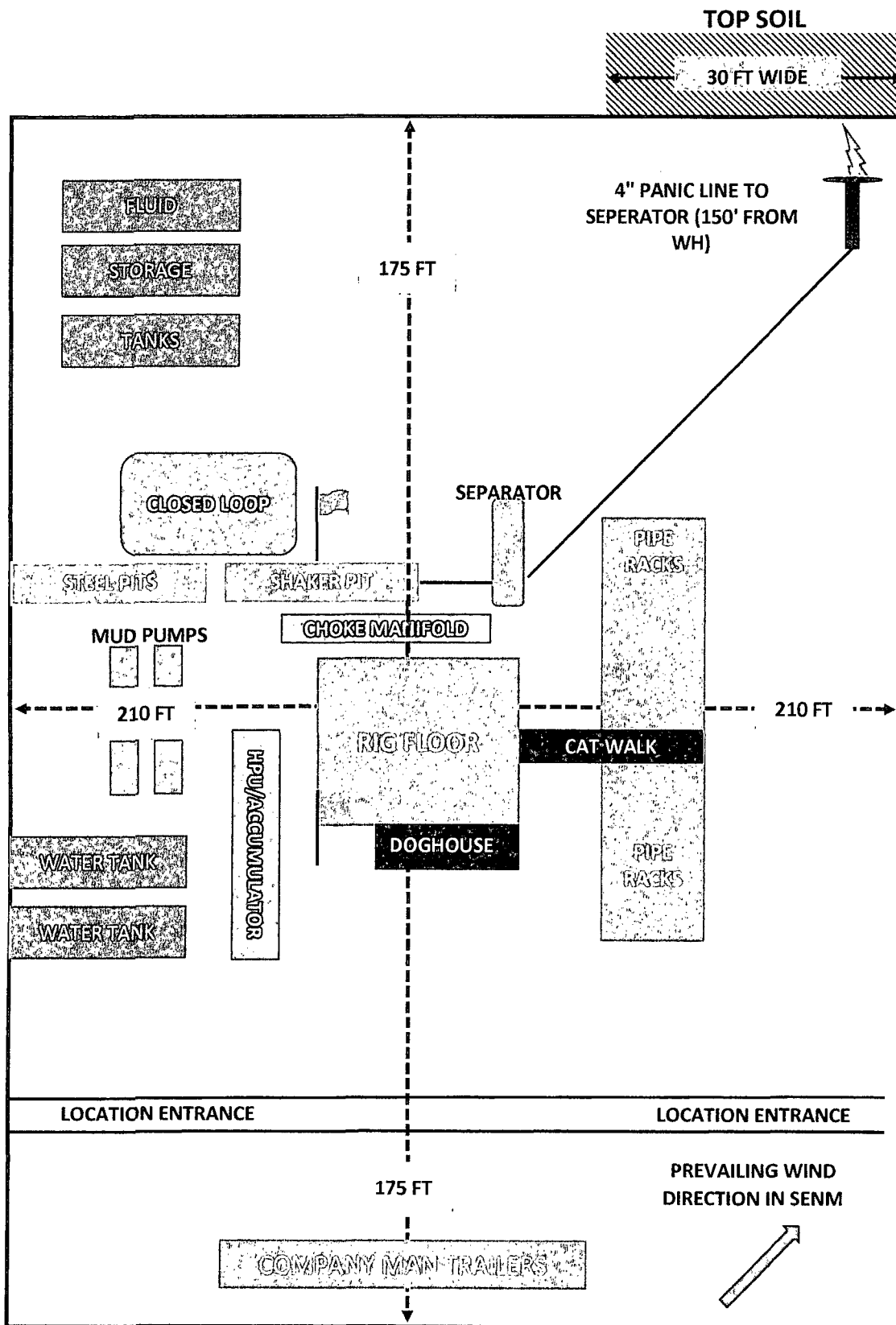
TARGETED T'S. ALL TURNS WILL BE TARGETED.
OPTION TO USE FLEX HOUSE. TBD ONCE DRILLING RIG IS SECURED. WILL SUNDRY.
ALL CHOKE LINES WILL BE STRAIGHT LINES UNLESS TURNS THAT USE TEE BLOCKS OR ARE TARGETED WITH RUNNING TEES, AND WILL BE ANCHORED TO PREVENT WHIP & REDUCE VIBRATION



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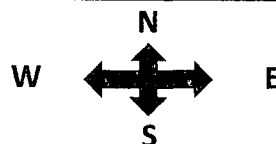
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RIG LOCATION LAYOUT

WELL PADS 420' X 350'

NOTE: DRAWING NOT TO SCALE

TELECASTER 30 FED 4H



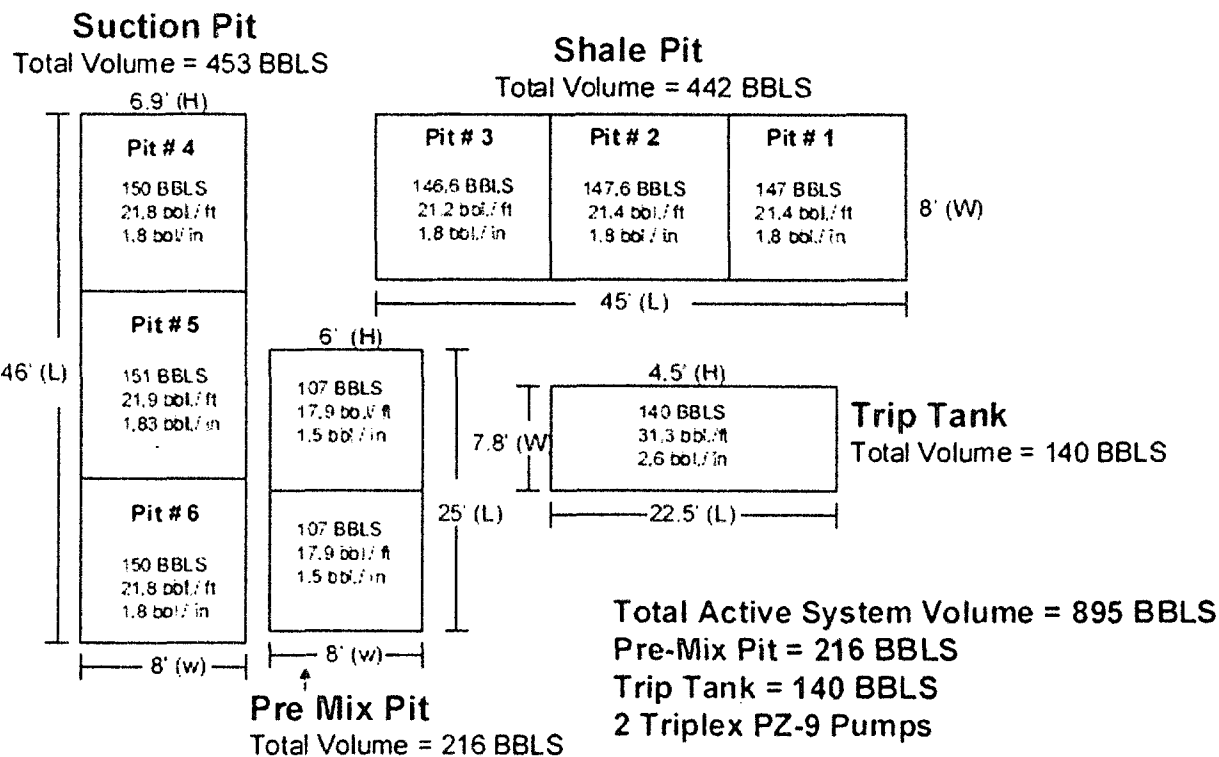
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McVay Drilling Co.

Rig # 4 – Pit System



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