

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Hobbs  
HOBBSS OCD

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2014

JUL 29 2013

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
NM 18306

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2.**

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

1. Type of Well

Oil Well     Gas Well     Other

8. Well Name and No.  
Stratocaster 20 Fed 4H

39925

2. Name of Operator  
Endurance Resources LLC

220329

9. API Well No.  
30-025-27051

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

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

10. Field and Pool or Exploratory Area  
Bell Lake; Bone Springs

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1980' FSL & 660' FEL; Sec 20-23S-34E

11. County or Parish, State  
Lea Co, NM

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>EXPAND SURFACE</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>LOCATION &amp;</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	<u>SIDETRACK</u>

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Endurance Resources LLC respectfully requests approval to expand the existing Stratocaster 20 Fed 4H (formally the Back Basin Unit #1) well pad to accommodate a drilling rig, and to sidetrack well horizontally into the Bone Spring formation. Well work planned is as follows:

- MIRU PU. Tag CIBP at 11,900' that was set 8/28/07.
- Set a Class H cement plug (16.4ppg/1.06 yield) from 11,900' to 11,600' (top of Wolfcamp). Tag plug.
- Set CIBP @ 9,925'. Test to 1000psi to ensure CIBP is holding.
- Set whipstock @ ~9,925'. RDMO PU. WO drilling rig.
- MIRU drilling rig. Sidetrack out of 9-5/8" csg with 8-3/4" bit to 13,224' MD (10,500' TVD).
- Run 5-1/2" 17# P-110 csg from surface to 13,224' MD (10,500' TVD).
- Cement 5-1/2" production string as follows. LEAD: 980 sks HAL Interfill-H (class H cmt) + 0.6% HR-601 (retarder). Weight: 11.90ppg. Yield: 2.49 cuft/sk. Total mixing volume: 14.52 gal/sk. Volume: 434 bbls. TAIL: 330 sks HAL SoluCem-H (class H cmt) + 0.75% HR-601 (retarder). Weight: 15ppg. Yield: 2.63 cuft/sk. Total mixing volume: 11.39 gal/sk. Volume: 153 bbls. All volumes based off 15% excess.
- Complete well in Bone Springs formation & turn to production.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

See attached C-102, 5-1/2" casing program, design factors, mud program, pressure control equipment, cement program, & current/proposed schematics.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Kale Jackson 575.914.3355

Title Sr Completions Engineer

Signature

Date 05/02/2013

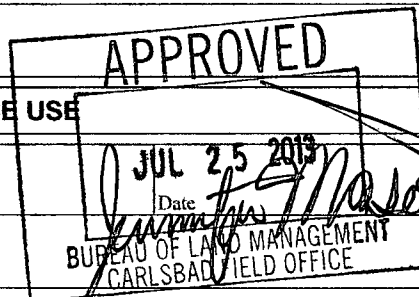
**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

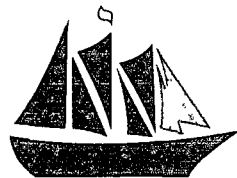


Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

AUG 07 2013

dm



ENDURANCE  
RESOURCES. LLC

**Endurance Resources LLC**

**DRILLING & OPERATIONS PROGRAM**

**Stratocaster 20 Fed #4H (RE-ENTRY)**

**SHL: 1980' FSL & 660' FEL**

**BHL: 330' FNL & 660' FEL**

**Sec 20-23S-34E**

**Lea Co, NM**

**CASING PROGRAM:**

HOLE SIZE	HOLE INTERVAL	OD CSG	CASING INTERVAL	WEIGHT	COLLAR	GRADE
8-3/4"	9,925' - 13,224'	5-1/2"	0' - 9,550'	17#	LTC	P-110
			9,550' - 13,224'	17#	BTC	P-110

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

**DESIGN FACTORS:**

CASING SIZE	COLLAPSE DESIGN FACTOR	BURST DESIGN FACTOR	TENSION DESIGN FACTOR
5-1/2" 17# P-110 LTC	1.70	1.98	1.55
5-1/2" 17# P-110 BTC	1.64	2.07	4.22

**MUD PROGRAM:**

DEPTH	MUD WEIGHT	VISC	FLUID LOSS	TYPE OF SYSTEM
0' - 13,224'	8.9 - 9.3	28 - 30	NC	FW

**PROPOSED CEMENT PROGRAM:**

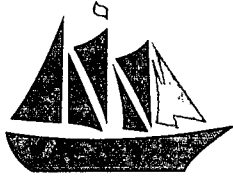
LEAD: 980 SKS HAL Interfill-H (CLASS H CMT) + 0.6% HR-601 (RETARDER). WEIGHT: 11.90PPG.

YIELD: 2.49 CUFT/SK. TOTAL MIXING VOLUME: 14.52 GAL/SK. VOLUME: 434 BBLS.

TAIL: 330 SKS HAL SoluCem-H (CLASS H CMT) + 0.75% HR-601 (RETARDER). WEIGHT: 15 PPG.

YIELD: 2.63 CUFT/SK. TOTAL MIXING VOLUME: 11.39 GAL/SK. VOLUME: 153 BBLS.

NOTE: CMT VOLUMES CALCULATED ON 15% EXCESS. ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER & CALIPER LOG DATA TO ENSURE CEMENT IS BROUGHT BACK TO LINER TOP.



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**PRESSURE CONTROL:**

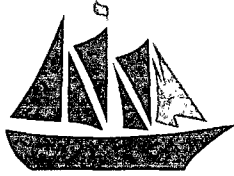
THE BOP SYSTEM USED TO DRILL THE PRODUCTION HOLE LATERAL WILL CONSIST OF A 13-5/8" 3M DOUBLE RAM & ANNULAR PREVENTER. THE BOP SYSTEM WILL BE TESTED AS PER BLM ONSHORE ORDER #2 AS A 3M SYSTEM PRIOR TO DRILLING OUT THE CASING WINDOW. THE PIPE RAMS WILL BE OPERATED & CHECKED EACH 24HR PERIOD & EACH TIME THE DRILL PIPE IS OUT OF THE HOLE. THESE TESTS WILL BE KEPT IN THE DAILY DRILLER'S LOG. OTHER ACCESSORIES TO BOP EQUIPMENT WILL INCLUDE A KELLY COCK & FLOOR SAFETY VALVE (INSIDE BOP), CHOKE LINES, AND CHOKE MANIFOLD WITH 3000PSI WP RATING. ENDURANCE WILL TEST BOP AS SOON AS IT IS INSTALLED & PRIOR TO CUTTING CASING WINDOW.

**POTENTIAL HAZARDS:**

THE EXISTING PALOMA 20-1 WELL HAS BEEN PRODUCING IN THE PROSPECTIVE HORIZONTAL TARGET AREA SINCE 2011. NO ABNORMAL PRESSURES OR H<sub>2</sub>S IS TO BE EXPECTED. IF H<sub>2</sub>S IS ENCOUNTERED, ENDURANCE RESOURCES LLC WILL COMPLY WITH ONSHORE ORDER #6. REGARDLESS, ALL PERSONNEL WILL BE TRAINED & QUALIFIED WITH H<sub>2</sub>S SAFETY & RIG SAFETY EQUIPMENT WILL BE CHECKED DAILY.

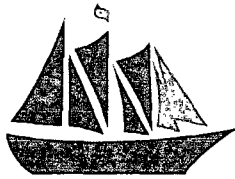
**LOCATION & OPERATIONS:**

- LOCATION EXPANSION WILL NOT COMMENCE UNTIL THE BLM HAS APPROVED THE NOI. ENDURANCE WILL USE THE EXISTING ROAD INTO LOCATION & WILL NOT GO BEYOND THIS ROAD IN ANYWAY.
- ALL CALICHE USED FOR THE PAD EXPANSION WILL BE OBTAINED FROM AN EXISTING BLM APPROVED PIT OR FROM DEPOSITS FOUND UNDER THE LOCATION. TOP SOIL, IF ANY, WILL BE PUSHED TO THE NW QUARTER OF LOCATION FROM THE PAD EXPANSION.
- ENDURANCE WILL TAKE PRODUCTION VIA FLOWLINE TO THE STRATOCASTER 20-1H BATTERY & WILL FOLLOW EXISTING ROADS IF ALL POSSIBLE. FLOWLINE ROW WILL BE SENT IN AT A LATER TIME.
- DRILLING RIG LAYOUT & DIMENSIONS ARE ATTACHED. THESE DIAGRAMS SHOW THE LOCATION OF EQUIPMENT TO BE PLACED ON LOCATION. MUD PITS IN THE CIRCULATING SYSTEM WILL BE STEEL PITS, AND A CLOSED LOOP SYSTEM WILL BE UTILIZED. ALL WASTE MATERIAL FROM DRILLING OPERATIONS WILL BE HAULED OFF TO CRI OR BLM APPROVED LANDFILL.
- FLOWBACK OR PW WILL BE HAULED TO AN APPROVED SWD DISPOSAL SITE.
- ALL WELL SITE WASTE MATERIAL (I.E TRASH) WILL BE CONTAINED IN CLOSED TRASH TRAILER CAGES & PORTO-JOHN'S WILL BE USED FOR GRAY WATER WASTE MANAGEMENT.



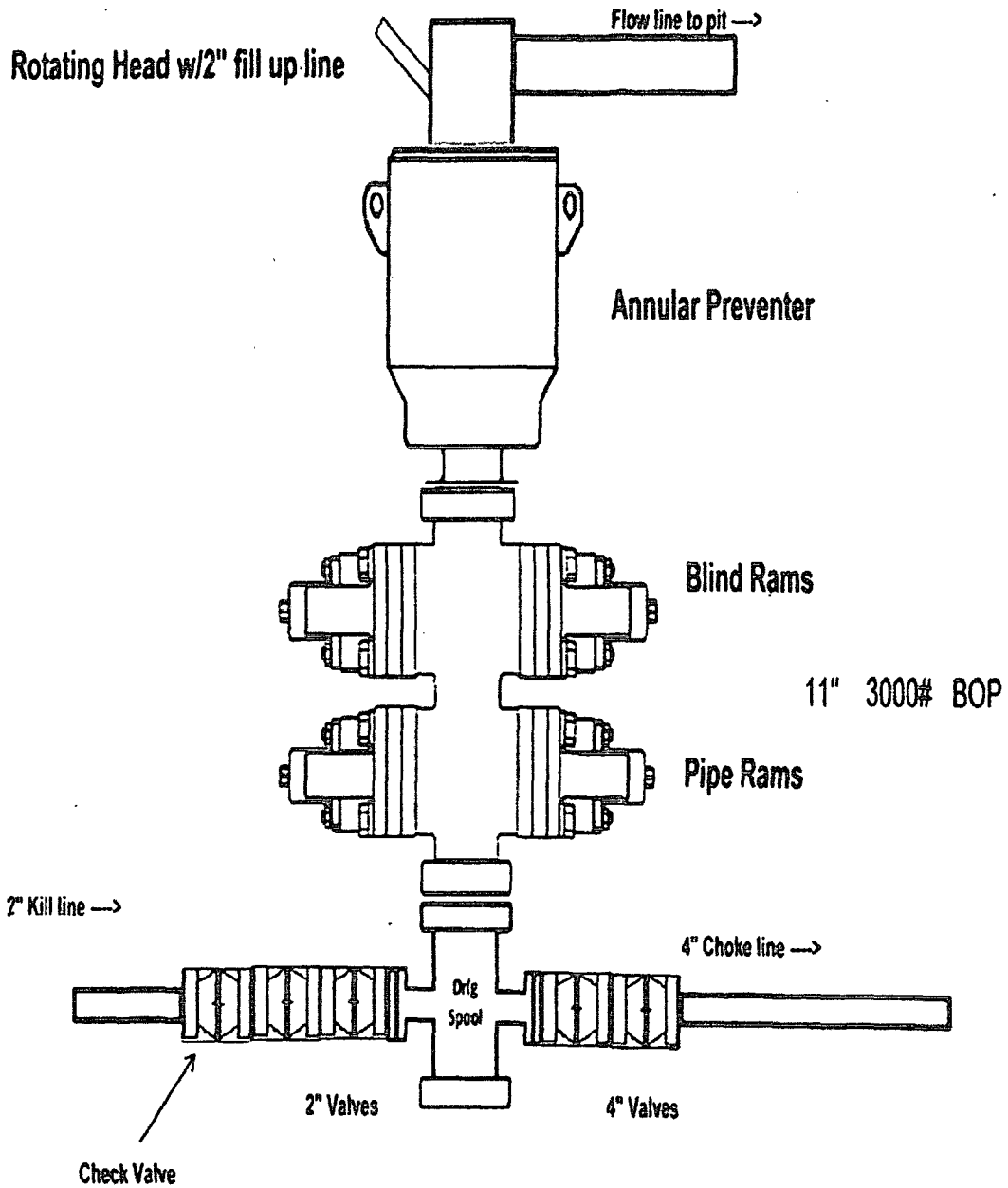
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- PROPOSED INTERIM RECLAMATION IS ATTACHED WITH SITE LAYOUT.
- HAD ONSITE WITH TRISH BADBEAR 4/30/13



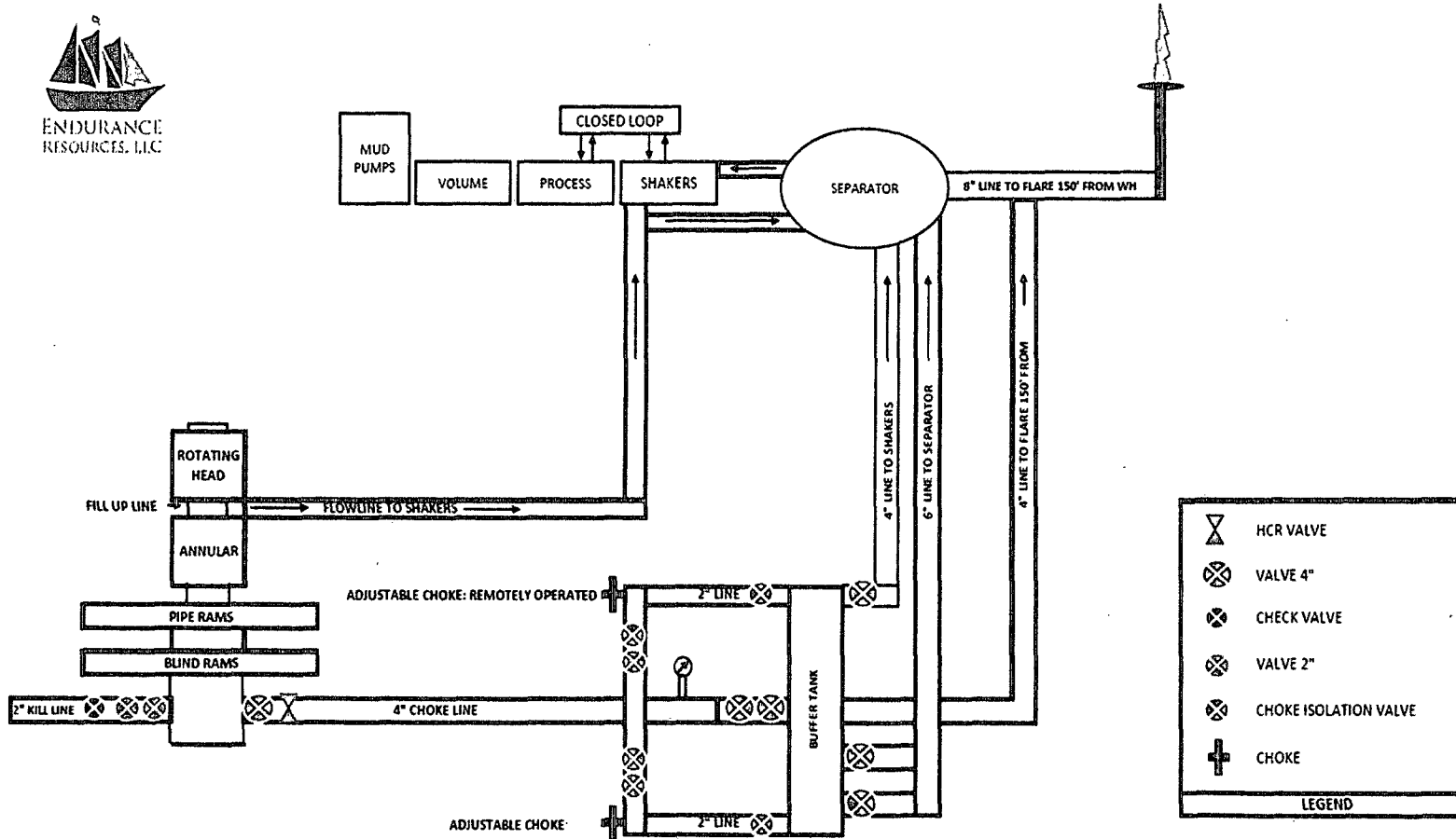
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## 3,000 psi BOP Schematic

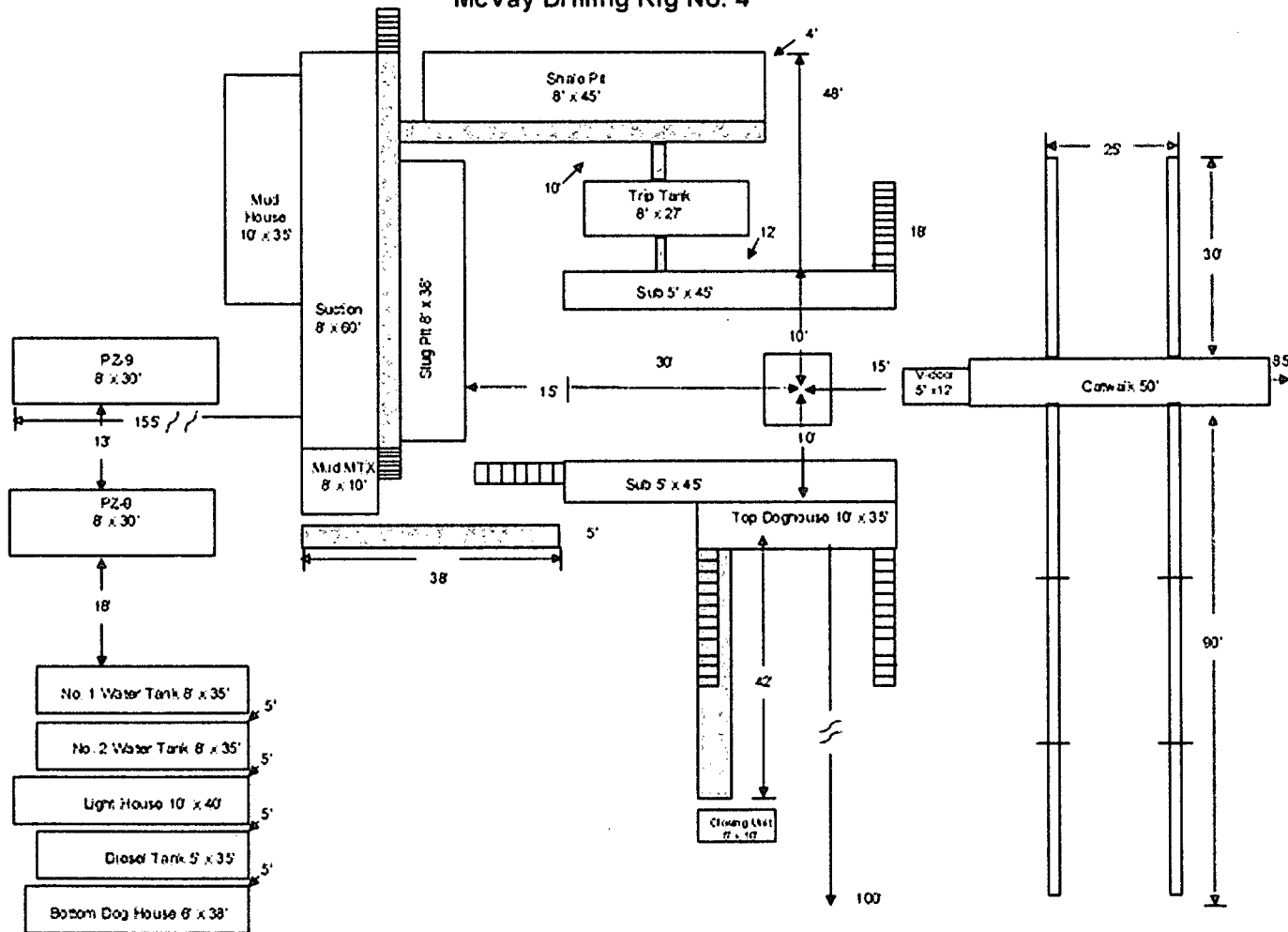




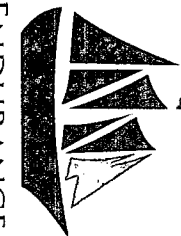
13-5/8" 3M BOPE AND CLOSED LOOP EQUIPMENT SCHEMATIC

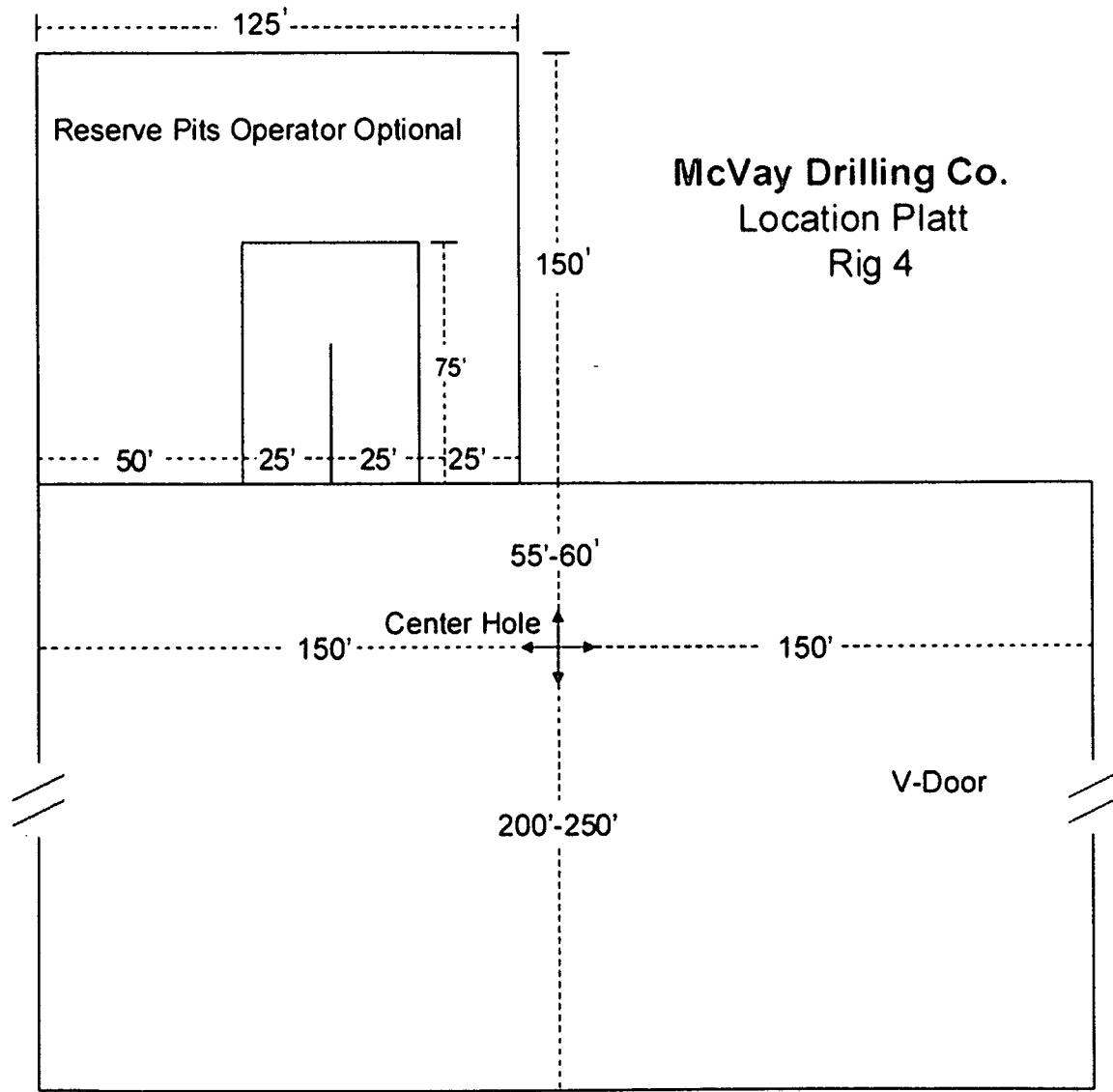


### McVay Drilling Rig No. 4



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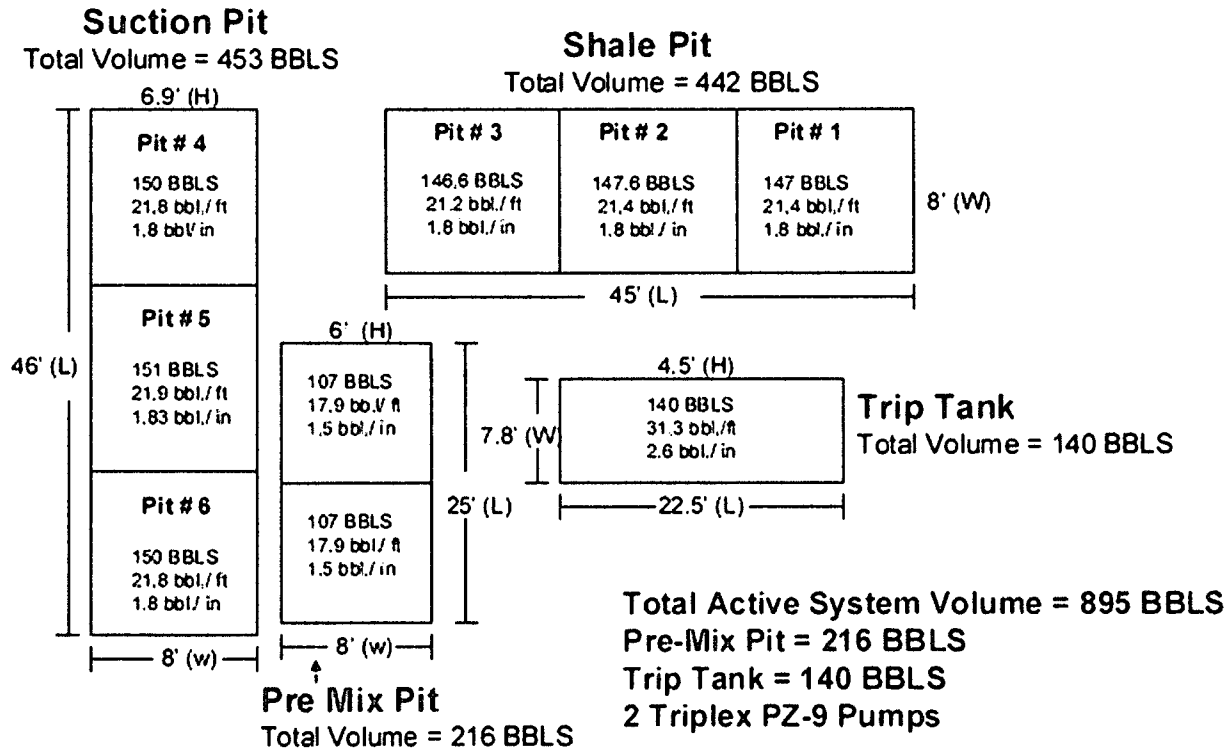






# McVay Drilling Co.

Rig # 4 – Pit System



# Endurance Resources LLC

HALLIBURTON

Sperry Drilling Services

Project: Lea County, NM (NAD 83)  
 Site: Stratocaster 20 Fed  
 Well: Stratocaster 20 Fed #4H  
 Wellbore: Wellbore #1  
 Plan: Plan #1  
 Rig: Est KB

### 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	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	359.49	10500.00	572.93	-5.14	10.00	359.49	572.96	End Build
13224.60	90.00	359.49	10500.00	2970.39	-26.67	0.00	0.00	2970.51	TD

### WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Stratocaster 20 4H PBHL	10500.00	2970.39	-26.67	472620.90	803250.92

### Surface Location:

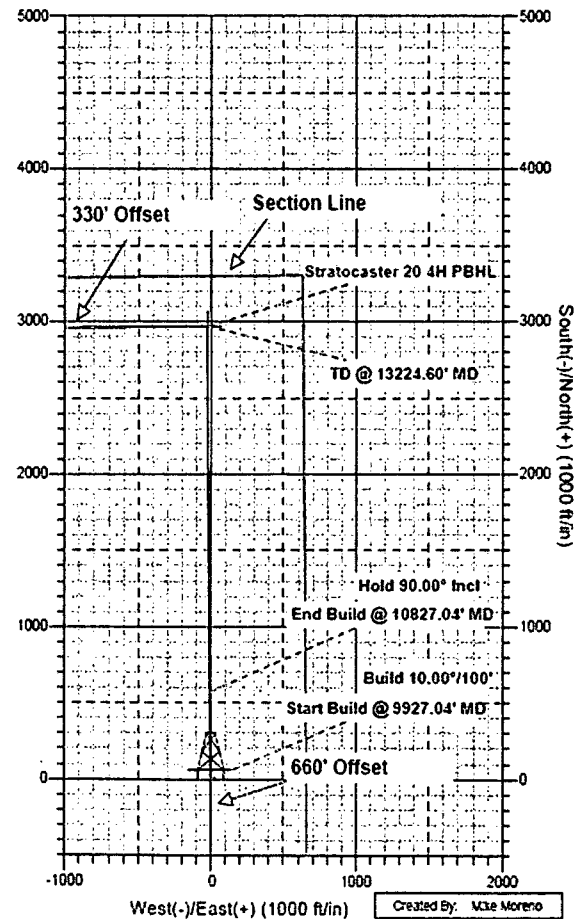
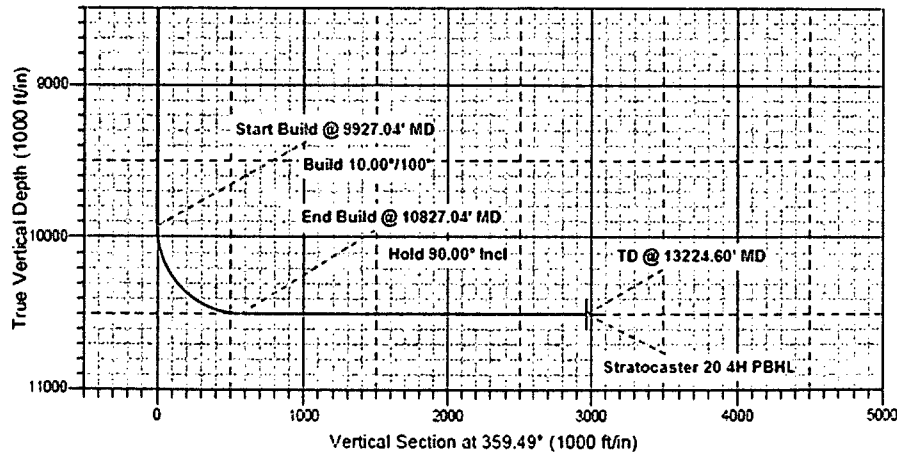
US State Plane 1983  
 New Mexico Eastern Zone  
 Elevation: GE 3496.8' + KB 22' @ 3518.80ft (Est KB)

Northing	Easting	Latitude	Longitude
489650.51	803277.59	32° 17' 17.872 N	103° 29' 8.459 W

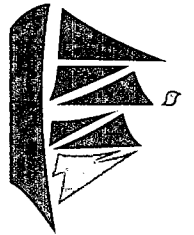


### To convert a Magnetic Direction to a Grid Direction, Add 6.97°

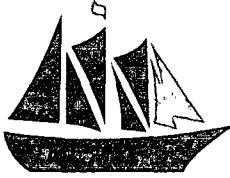
Magnetic Model: BGGM2012 Date: 29-Apr-13  
 Azimuths to Grid North



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 RESOURCES, LLC



Created By: Mike Moreno



ENDURANCE  
RESOURCES, LLC

## Endurance Resources LLC

Lea County, NM (NAD 83)

Stratocaster 20 Fed

Stratocaster 20 Fed #4H

HOBBS OCD

JUL 29 2013

Wellbore #1

RECEIVED

Plan: Plan #1

## Sperry Drilling Services

### Standard Report

29 April, 2013

Well Coordinates: 469,650.51 N, 803,277.59 E (32° 17' 17.87" N, 103° 29' 08.46" W)

Ground Level: 3,496.60 ft

Local Coordinate Origin:

Centered on Well Stratocaster 20 Fed #4H

Viewing Datum:

GE 3496.6' + KB 22' @ 3518.80ft (Est KB)

TVDs to System:

N

North Reference:

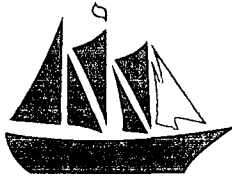
Grid

Unit System:

API - US Survey Feet

Version: 2003.16 Build 431

HALLIBURTON



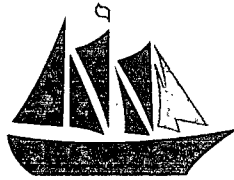
ENDURANCE  
RESOURCES, LLC

Endurance Resources LLC  
Lea County, NM (NAD 83)

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Plan Report for Stratocaster 20 Fed #4H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	-N-S (ft)	-E-W (ft)	Vertical Section (ft)	Dogleg Rate (%/100ft)
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
1,300.00	0.00	0.00	1,300.00	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
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
3,000.00	0.00	0.00	3,000.00	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
3,200.00	0.00	0.00	3,200.00	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
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
4,000.00	0.00	0.00	4,000.00	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
4,200.00	0.00	0.00	4,200.00	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
4,400.00	0.00	0.00	4,400.00	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
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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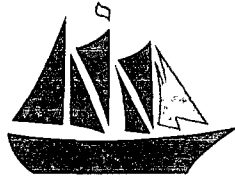
Endurance Resources LLC

Lea County, NM (NAD 83)

HALLIBURTON

Plan Report for Stratocaster 20 Fed #4H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	-N-S (ft)	-E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
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



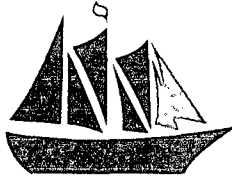
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Plan Report for Stratocaster 20 Fed #4H - Plan #1

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
<b>Start Build @ 9927.04' MD - Build 10.00' / 100'</b>							
9,950.00	2.30	359.49	9,949.99	0.46	0.00	0.46	10.00
10,000.00	7.30	359.49	9,999.80	4.64	-0.04	4.64	10.00
10,050.00	12.30	359.49	10,049.06	13.14	-0.12	13.14	10.00
10,100.00	17.30	359.49	10,097.39	25.91	-0.23	25.91	10.00
10,150.00	22.30	359.49	10,144.42	42.83	-0.38	42.84	10.00
10,200.00	27.30	359.49	10,189.79	63.80	-0.57	63.80	10.00
10,250.00	32.30	359.49	10,233.17	88.63	-0.80	88.64	10.00
10,300.00	37.30	359.49	10,274.21	117.16	-1.05	117.16	10.00
10,350.00	42.30	359.49	10,312.62	149.15	-1.34	149.15	10.00
10,400.00	47.30	359.49	10,348.09	184.36	-1.66	184.37	10.00
10,450.00	52.30	359.49	10,380.35	222.54	-2.00	222.55	10.00
10,500.00	57.30	359.49	10,409.17	263.38	-2.36	263.39	10.00
10,550.00	62.30	359.49	10,434.31	306.56	-2.75	306.59	10.00
10,600.00	67.30	359.49	10,455.60	351.80	-3.16	351.81	10.00
10,650.00	72.30	359.49	10,472.66	398.71	-3.58	398.72	10.00
10,700.00	77.30	359.49	10,485.97	446.94	-4.01	446.96	10.00
10,750.00	82.30	359.49	10,494.83	496.13	-4.45	496.15	10.00
10,800.00	87.30	359.49	10,499.36	545.91	-4.90	545.93	10.00
10,827.04	90.00	359.49	10,500.00	572.93	-5.14	572.96	10.00
<b>End Build @ 10827.04' MD - Hold 90.00° Incl</b>							
10,900.00	90.00	359.49	10,500.00	645.89	-5.60	645.92	0.00
11,000.00	90.00	359.49	10,500.00	745.89	-6.70	745.92	0.00
11,100.00	90.00	359.49	10,500.00	845.88	-7.59	845.92	0.00
11,200.00	90.00	359.49	10,500.00	945.88	-8.49	945.92	0.00
11,300.00	90.00	359.49	10,500.00	1,045.88	-9.39	1,045.92	0.00
11,400.00	90.00	359.49	10,500.00	1,145.87	-10.29	1,145.92	0.00
11,500.00	90.00	359.49	10,500.00	1,245.87	-11.19	1,245.92	0.00
11,600.00	90.00	359.49	10,500.00	1,345.86	-12.08	1,345.92	0.00
11,700.00	90.00	359.49	10,500.00	1,445.86	-12.98	1,445.92	0.00
11,800.00	90.00	359.49	10,500.00	1,545.86	-13.88	1,545.92	0.00
11,900.00	90.00	359.49	10,500.00	1,645.85	-14.78	1,645.92	0.00
12,000.00	90.00	359.49	10,500.00	1,745.85	-15.68	1,745.92	0.00
12,100.00	90.00	359.49	10,500.00	1,845.84	-16.57	1,845.92	0.00
12,200.00	90.00	359.49	10,500.00	1,945.84	-17.47	1,945.92	0.00
12,300.00	90.00	359.49	10,500.00	2,045.84	-18.37	2,045.92	0.00
12,400.00	90.00	359.49	10,500.00	2,145.83	-19.27	2,145.92	0.00
12,500.00	90.00	359.49	10,500.00	2,245.83	-20.16	2,245.92	0.00
12,600.00	90.00	359.49	10,500.00	2,345.82	-21.06	2,345.92	0.00
12,700.00	90.00	359.49	10,500.00	2,445.82	-21.96	2,445.92	0.00
12,800.00	90.00	359.49	10,500.00	2,545.82	-22.86	2,545.92	0.00
12,900.00	90.00	359.49	10,500.00	2,645.81	-23.76	2,645.92	0.00
13,000.00	90.00	359.49	10,500.00	2,745.81	-24.65	2,745.92	0.00
13,100.00	90.00	359.49	10,500.00	2,845.80	-25.55	2,845.92	0.00
13,200.00	90.00	359.49	10,500.00	2,945.80	-26.45	2,945.92	0.00
13,224.60	90.00	359.49	10,500.00	2,970.39	-26.67	2,970.51	0.00
<b>TD @ 13224.60' MD</b>							



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**HALLIBURTON**

**Plan Report for Stratocaster 20 Fed #4H - Plan #1**

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		-N/-S (ft)	-E/-W (ft)	
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	-5.14	End Build @ 10827.04' MD
10,827.04	10,500.00	572.93	-5.14	Hold 99.00° Incl
13,224.60	10,500.00	2,970.39	-26.67	TD @ 13224.60' MD

Vertical Section Information

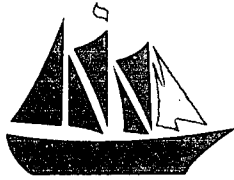
User	Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
					-N/-S (ft)	-E/-W (ft)	
		No Target (Freehand)	359.49	Slo:	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	13,224.60	Plan #1	MWD+GC

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	-N/-S (ft)	-E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Stratocaster 20 4H F - hit/miss target - Shape	0.00	0.00	10,500.00	2,970.39	-26.67	472,620.90	803,250.92	32° 17' 47.266 N	103° 29' 8.496 W
- plan hits target: center - Point									



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**HALLIBURTON**

**North Reference Sheet for Stratocaster 20 Fed - Stratocaster 20 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 3496.6' + KB 22' @ 3518.66ft (Est KB). Northing and Easting are relative to Stratocaster 20 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: 541,337.50ft, False Northing: 0.00ft, Scale Reduction: 0.99998766

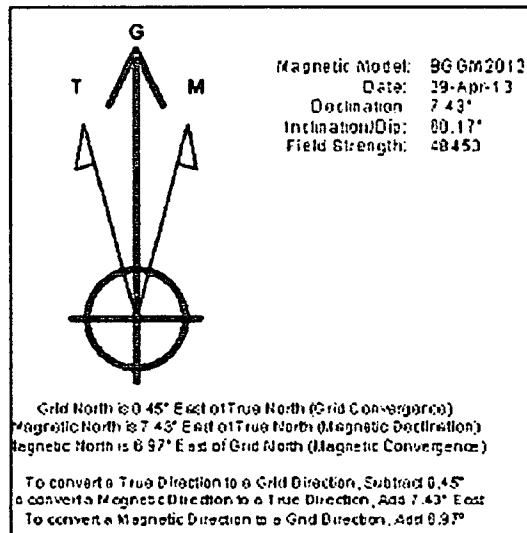
Grid Coordinates of Well: 469,650.51 ft N, 803,277.59 ft E

Geographical Coordinates of Well: 32° 17' 17.87" N, 103° 29' 08.46" W

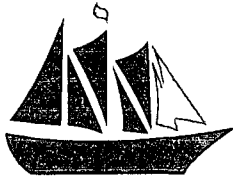
Grid Convergence at Surface is: 0.45°

Based upon Minimum Curvature type calculations, at a Measured Depth of 13,224.50ft  
the Bottom Hole Displacement is 2,970.51ft in the Direction of 359.49° (Grid).

Magnetic Convergence at surface is: -6.97° (29 April 2013, . BGGM2012)

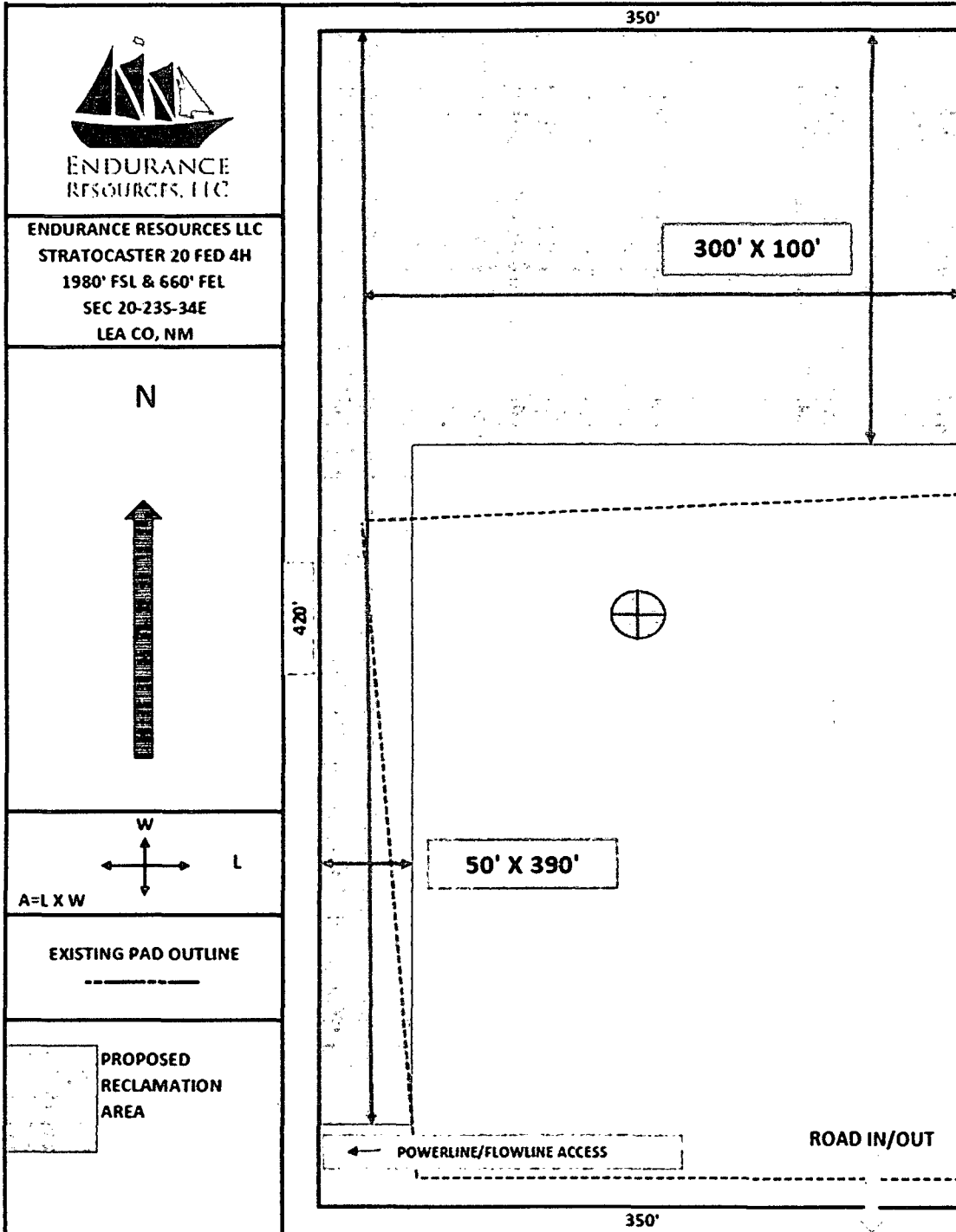


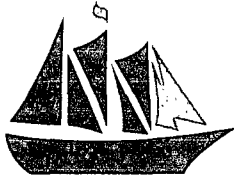




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PROPOSED INTERIM SITE RECLAMATION





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Well Name: Back Basin Unit #1		Field: Antelope Ridge: Atoka West	
Location: 1980' FSL & 660' FEL; Sec 20-235-34E		County: LEA	State: NM
Elevation: 3495 GL; 3517 KB (22')		Spud Date: 10/27/80	Compl Date: 9/21/06
API#: 30-025-27051	Prepared by: KALE JACKSON	Date: 4/25/13	Rev: 4/25/13



CURRENT SCHEMATIC

HOLE SIZE	CASING SIZE	DEPTH SET	CMT TOP
23"	20"	600'	SURFACE

HOLE SIZE	CASING SIZE	DEPTH SET	CMT TOP
17-1/2"	13-3/8"	5,125'	SURFACE

DV TOOL @ 7983'

PRESSURE TEST PLUG TO 500PSI. HELD FOR 30MIN  
WITNESSED BY MCCORMICK W/ BLM HOBBS 11/1/07  
SET CIBP @ 11,300'. DUMPBAIL 40' CMT 8/28/07

DRILLED 8-3/4" HOLE TO 12,665MD (12,516 TVD)  
COULD NOT ACHIEVE HORIZONTAL  
LAYING DOWN DRILLING BHA. RELEASE RIG 9/21/06  
FINAL SURVEY  
12,665MD 12,516 TVD 30° INC 223° AZM 75° Veect

TOP OF LINER: PBR	
5"	11,967'

WHIPSTOCK @ 11,958' (TOP @ 11,940) 7/23/06  
CIBP @ 11,958' 7/21/06  
MIRU NABORS RIG 441 7/20/06

SET CIBP @ 12,300'. DUMPBAIL 35' CMT 7/15/06

HOLE SIZE	CASING SIZE	DEPTH SET	CMT TOP
12-1/4"	9-5/8"	12,310'	5,100'

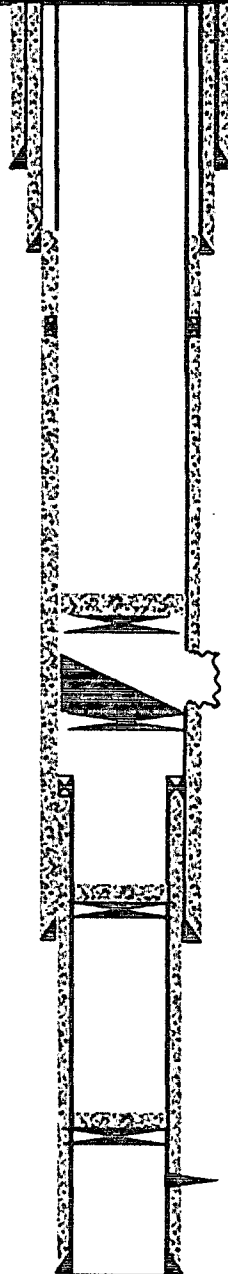
CMT w/ 1325 spec lead 1200 spec tail  
9-5/8" S-95 53.5# (9529-12,310)  
9-5/8" N-80 53.5# (9529-7149)  
9-5/8" N-80 47# (7149 to surface)

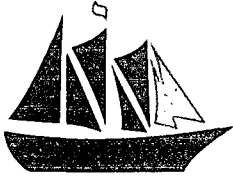
CIBP @ 12,600' w/ 40' cmt

ATOKA PERFS @ 12,620' - 12,841'

HOLE SIZE	CASING SIZE	DEPTH SET	CMT TOP
6-1/8"	5"	14,150'	TOL

CMT'D w/ 250 spec





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Well Name: Stratocaster 20 Fed 4H		Field: Bell Lake; Bone Springs	
Location: 1980' FSL & 660' FEL; Sec 20-235-34E		County: LEA	State: NM
Elevation: 3496 6L		Spud Date: 10/27/00	Compl Date: 9/21/06
API#: 30-025-27051	Prepared by: KALE JACKSON	Date: 4/25/13	Rev: 4/29/13



PROPOSED SCHEMATIC

NOTE: DRAWING NOT TO SCALE  
2nd Bone Spring Horizontal

HOLE SIZE	CASING SIZE	DEPTH SET	CMT TOP
23"	20"	600'	SURFACE

HOLE SIZE	CASING SIZE	DEPTH SET	CMT TOP
17-1/2"	13-3/8"	5,125'	SURFACE

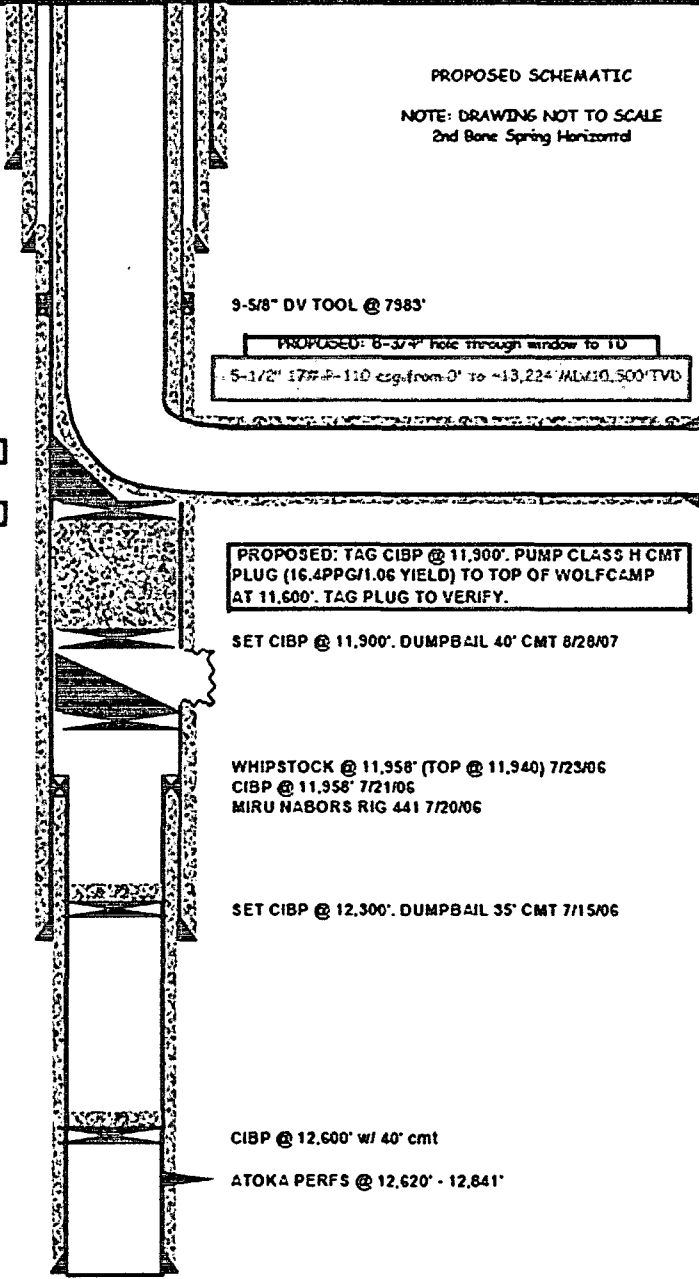
Proposed: Set Whipstock @ ~9,925' TVD

Proposed: CIBP @ ~9,925' TVD

TOP OF LINER: PBR	
5"	11,967'

HOLE SIZE	CASING SIZE	DEPTH SET	CMT TOP
12-1/4"	9-5/8"	12,310'	5,100'
CMT w/ 1325 lbs lead 1200 lbs tail			

HOLE SIZE	CASING SIZE	DEPTH SET	CMT TOP
6-1/8"	5"	14,150'	TOL
CMT'D w/ 250 lbs			



**Stratocaster 20 Fed 4H  
30-025-27051  
Endurance Resources LLC  
July 25, 2013  
Conditions of Approval**

**Notify BLM at 575-393-3612 a minimum of 24 hours prior to commencing work.**

Work to be completed within 90 days of the approval or an NOI must be submitted to plug and abandon this well. If no action is taken a notice of noncompliance will be issued. Well has been in non-compliance for several years.

- 1. Operator's step 2- plug shall be set from 11,900'-11,400'.**
- 2. Conduct a casing integrity test according to Onshore Oil and Gas Order 2.III.B.1.h. Submit results to BLM.** Make arrangements 24 hours before the test for BLM to witness. Phone 575-393-3612. If no answer, leave a voice mail or email with the API#, workover purpose, and a call back phone number. Note the contact, time, & date in your subsequent report.
- 3. If CIT is okay, operator can proceed with plans.**
- 4. Operator step 4 – tag CIBP prior to placing whipstock.**
5. Closed loop system required.
6. Operator to have H2S monitoring equipment on location.
7. A minimum of a 3000 (3M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
8. Surface disturbance beyond the originally approved pad must have prior approval.

9. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
- 10. Subsequent sundry required detailing work done and completion report with new formation. Operator to include new well plat and well bore schematic of current well condition when work is complete.**

**JAM 072513**