

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

State of New Mexico  
Energy Minerals and Natural Resources  
Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-144 CLEZ  
July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal/or closure, submit to the appropriate NMOCD District Office

**Closed-Loop System Permit or Closure Plan Application**

(that only above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: ☒ Permit ☐ Closure

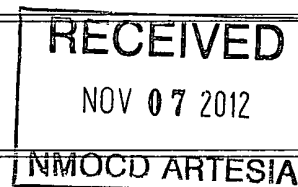
Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form, C-144.

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

Operator: <u>Mack Energy Corporation</u>		OGRID #: <u>013837</u>
Address: <u>P.O. Box 960 Artesia, NM 88210-0960</u>		
Facility or well name: <u>Bishop State Com #1</u>		
API Number: <u>30-015-40831</u>	OCD Permit Number: <u>213618</u>	
U/L or Qtr/Qtr <u>A</u>	Section <u>3</u>	Township <u>23S</u> Range <u>23E</u> County <u>Eddy</u>
Center of Proposed Design: Latitude _____ Longitude _____		NAD <input type="checkbox"/> 1927 <input type="checkbox"/> 1983
Surface Owner: <input type="checkbox"/> Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Tribal Trust or Indian Allotment		

<input checked="" type="checkbox"/> <b>Closed-loop System:</b> Subsection H of 19.15.17.11 NAIAC	
Operation: <input checked="" type="checkbox"/> Drilling a new well <input type="checkbox"/> Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) <input type="checkbox"/> P&A	
<input checked="" type="checkbox"/> Above Ground Steel Tanks or <input type="checkbox"/> Haul-off Bins	

<b>Sign:</b> Subsection C of 19.15.17.11 NMAC	
<input type="checkbox"/> 12" x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
<input type="checkbox"/> Signed in compliance with 19.15.3.103 NMAC	



<b>Closed-loop Systems Permit Application Attachment Checklist:</b> Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached	
<input checked="" type="checkbox"/> Design Plan -based upon the appropriate requirements of 19.15.17.11 NMAC	
<input checked="" type="checkbox"/> Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
<input checked="" type="checkbox"/> Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
<input type="checkbox"/> Previously Approved Design (attach copy of design)	API Number: _____
<input type="checkbox"/> Previously Approved Operating and Maintenance Plan	API Number: _____

<b>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</b> (19.15.17.13 D NMAC)	
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.	
Disposal Facility Name: <u>Controlled Recovery Inc</u>	Disposal Facility Permit Number: <u>NM-01-0006</u>
Disposal Facility Name: _____	Disposal Facility Permit Number: _____
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?	
<input type="checkbox"/> Yes (If yes, please provide the information below) <input checked="" type="checkbox"/> No	
Required for impacted areas which will not be used for future service and operations.	
<input type="checkbox"/> Soil Backfill and Cover Design Specifications -- based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
<input type="checkbox"/> Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	
<input type="checkbox"/> Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	

<b>Operator Application Certification:</b>	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief	
Name (Print): <u>Jerry W. Sherrell</u>	Title: <u>Production Clerk</u>
Signature: <u>Jerry W. Sherrell</u>	Date: <u>11/6/12</u>
e-mail address: <u>jerrys@mec.com</u>	Telephone: <u>575-748-1288</u>

<sup>7</sup>  
**OCD Approval:** ☒ Permit Applies on (including closure plan) ☐ Closure Plan (only)  
 OCD Representative Signature: RP Dade Approval Date: 11/9/12  
 Title: Dist # Supervisor OCD Permit Number: 213618

<sup>8</sup>  
**Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC  
*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*  
☐ Closure Completion Date: \_\_\_\_\_

<sup>9</sup>  
**Closure Reports Regarding Waste Removal Closure for Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**  
*Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized*  
 Disposal Facility Name: Controlled Recovery Inc Disposal Facility Permit Number: NM-01-0006  
 Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_  
 Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?  
☐ Yes (If yes, please demonstrate compliance to the items below) ☐ NO  
*Required for impacted areas which will not be used for future service and operations:*  
☐ Site Reclamation (Photo Documentation)  
☐ Soil Backfilling and Cover Installation  
☐ Re-vegetation Application Rates and Seeding Technique

<sup>10</sup>  
**Operator Closure Certification:**  
 I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan  
 Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

## **Mack Energy Closed Loop System Design Plan**

Equipment list,

2- 414 Swaco Centrifuges

2- 4 screen Mongoose shale shakers

2- CRI Bins with track system

2- 500 BBL frac tanks for fresh water

2- 500 BBL frac tanks for brine water

## **Operations and Maintenance**

Closed Loop equipment will be inspected daily by each tour and any necessary maintenance performed.

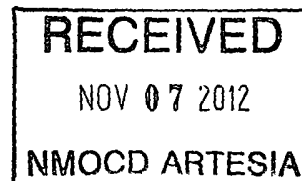
Any leak in system will be repaired and /or contained immediately.

OCD notified within 48 hours.

Remediation process started.

## **Closure Plan**

During drilling operations all liquids, drilling fluids and cuttings will be hauled off by CRI(Controlled Recovery Inc. Permit NM-01-0006).



## **Mack Energy Corp**

Eddy County

Bishop State #1H

State #1H

#1H

Plan: Plan #1

## **MEC Survey Report**

29 October, 2012





MEC  
MEC Survey Report



Company: Mack Energy Corp  
Project: Eddy County  
Site: Bishop State #1H  
Well: State #1H  
Wellbore: #1H  
Design: Plan #1

Local Co-ordinate Reference: Site Bishop State #1H  
TVD Reference: WELL @ 4283.0usft (Original Well Elev)  
MD Reference: WELL @ 4283.0usft (Original Well Elev)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: EDM 5000.1 Single User Db

Project Eddy County

Map System: US State Plane 1927 (Exact solution)  
Geo Datum: NAD 1927 (NADCON CONUS)  
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Bishop State #1H

Site Position:	From:	Map	Northing:	487,162.20 usft	Latitude:	32° 20' 20.699 N
			Easting:	423,732.70 usft	Longitude:	104° 34' 48.986 W
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.13 °

Well State #1H

Well Position	+N/-S	0.0 usft	Northing:	487,162.20 usft	Latitude:	32° 20' 20.699 N
	+E/-W	0.0 usft	Easting:	423,732.70 usft	Longitude:	104° 34' 48.986 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	4,266 0 usft

Wellbore #1H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/29/2012	7 88	60.11	48,473

Design Plan #1

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0 0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 0	0.0	0.0	180 10

Survey Tool Program Date 10/29/2012

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	6,671.5	Plan #1 (#1H)		



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Survey Calculation Method: Minimum Curvature  
Database: EDM 5000 1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
1,750.0	0.00	0.00	1,750.0	0.0	0.0	0.0	0.00	487,162.20	423,732.70
1,800.0	5.00	180.10	1,799.9	-2.2	0.0	2.2	10.00	487,160.02	423,732.70
1,850.0	10.00	180.10	1,849.5	-8.7	0.0	8.7	10.00	487,153.50	423,732.68
1,900.0	15.00	180.10	1,898.3	-19.5	0.0	19.5	10.00	487,142.68	423,732.67
1,950.0	20.00	180.10	1,946.0	-34.6	-0.1	34.6	10.00	487,127.65	423,732.64
2,000.0	25.00	180.10	1,992.1	-53.7	-0.1	53.7	10.00	487,108.52	423,732.61
2,050.0	30.00	180.10	2,036.5	-76.8	-0.1	76.8	10.00	487,085.44	423,732.57
2,100.0	35.00	180.10	2,078.6	-103.6	-0.2	103.6	10.00	487,058.58	423,732.52
2,150.0	40.00	180.10	2,118.3	-134.0	-0.2	134.0	10.00	487,028.15	423,732.47



MEC  
MEC Survey Report



Company: Mack Energy Corp  
Project: Eddy County  
Site: Bishop State #1H  
Well: State #1H  
Wellbore: #1H  
Design: Plan #1

Local Co-ordinate Reference: Site Bishop State #1H  
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MD Reference: WELL @ 4283 0usft (Original Well Elev)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,200.0	45.00	180.10	2,155.1	-167.8	-0.3	167.8	10.00	486,994.38	423,732.41
2,250.0	50.00	180.10	2,188.9	-204.7	-0.4	204.7	10.00	486,957.53	423,732.34
2,300.0	55.00	180.10	2,219.3	-244.3	-0.4	244.3	10.00	486,917.88	423,732.27
2,350.0	60.00	180.10	2,246.2	-286.5	-0.5	286.5	10.00	486,875.72	423,732.20
2,400.0	65.00	180.10	2,269.3	-330.8	-0.6	330.8	10.00	486,831.39	423,732.12
2,450.0	70.00	180.10	2,288.4	-377.0	-0.7	377.0	10.00	486,785.21	423,732.04
2,500.0	75.00	180.10	2,303.4	-424.7	-0.7	424.7	10.00	486,737.54	423,731.96
2,550.0	80.00	180.10	2,314.3	-473.5	-0.8	473.5	10.00	486,688.74	423,731.87
2,600.0	85.00	180.10	2,320.8	-523.0	-0.9	523.0	10.00	486,639.18	423,731.79
2,649.1	89.91	180.10	2,323.0	-572.1	-1.0	572.1	10.00	486,590.12	423,731.70
2,677.0	89.91	180.10	2,323.0	-600.0	-1.0	600.0	0.00	486,562.20	423,731.65
2,688.1	89.86	180.10	2,323.0	-611.1	-1.1	611.1	0.50	486,551.10	423,731.63
2,700.0	89.86	180.10	2,323.1	-623.0	-1.1	623.0	0.00	486,539.24	423,731.61
2,800.0	89.86	180.10	2,323.3	-723.0	-1.3	723.0	0.00	486,439.24	423,731.44
2,900.0	89.86	180.10	2,323.6	-823.0	-1.4	823.0	0.00	486,339.24	423,731.26
3,000.0	89.86	180.10	2,323.8	-923.0	-1.6	923.0	0.00	486,239.24	423,731.09
3,100.0	89.86	180.10	2,324.1	-1,023.0	-1.8	1,023.0	0.00	486,139.25	423,730.92
3,200.0	89.86	180.10	2,324.3	-1,123.0	-2.0	1,123.0	0.00	486,039.25	423,730.74
3,300.0	89.86	180.10	2,324.6	-1,223.0	-2.1	1,223.0	0.00	485,939.25	423,730.57
3,400.0	89.86	180.10	2,324.8	-1,323.0	-2.3	1,323.0	0.00	485,839.25	423,730.39
3,500.0	89.86	180.10	2,325.1	-1,423.0	-2.5	1,423.0	0.00	485,739.25	423,730.22
3,600.0	89.86	180.10	2,325.3	-1,523.0	-2.7	1,523.0	0.00	485,639.25	423,730.05
3,700.0	89.86	180.10	2,325.6	-1,623.0	-2.8	1,623.0	0.00	485,539.25	423,729.87
3,800.0	89.86	180.10	2,325.8	-1,723.0	-3.0	1,723.0	0.00	485,439.25	423,729.70
3,900.0	89.86	180.10	2,326.1	-1,823.0	-3.2	1,823.0	0.00	485,339.25	423,729.52
4,000.0	89.86	180.10	2,326.3	-1,923.0	-3.3	1,923.0	0.00	485,239.25	423,729.35
4,100.0	89.86	180.10	2,326.6	-2,023.0	-3.5	2,023.0	0.00	485,139.25	423,729.18



MEC  
MEC Survey Report



Company: Mack Energy Corp  
Project: Eddy County  
Site: Bishop State #1H  
Well: State #1H  
Wellbore: #1H  
Design: Plan #1

Local Co-ordinate Reference: Site Bishop State #1H  
TVD Reference: WELL @ 4283.0usft (Original Well Elev)  
MD Reference: WELL @ 4283.0usft (Original Well Elev)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: EDM 5000 1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
4,200.0	89.86	180.10	2,326.8	-2,122.9	-3.7	2,123.0	0.00	485,039.25	423,729.00
4,300.0	89.86	180.10	2,327.1	-2,222.9	-3.9	2,223.0	0.00	484,939.25	423,728.83
4,400.0	89.86	180.10	2,327.3	-2,322.9	-4.0	2,323.0	0.00	484,839.25	423,728.65
4,500.0	89.86	180.10	2,327.6	-2,422.9	-4.2	2,423.0	0.00	484,739.25	423,728.48
4,600.0	89.86	180.10	2,327.8	-2,522.9	-4.4	2,523.0	0.00	484,639.25	423,728.31
4,700.0	89.86	180.10	2,328.1	-2,622.9	-4.6	2,623.0	0.00	484,539.25	423,728.13
4,800.0	89.86	180.10	2,328.3	-2,722.9	-4.7	2,723.0	0.00	484,439.25	423,727.96
4,900.0	89.86	180.10	2,328.6	-2,822.9	-4.9	2,823.0	0.00	484,339.25	423,727.78
5,000.0	89.86	180.10	2,328.8	-2,922.9	-5.1	2,923.0	0.00	484,239.25	423,727.61
5,100.0	89.86	180.10	2,329.1	-3,022.9	-5.3	3,023.0	0.00	484,139.25	423,727.44
5,200.0	89.86	180.10	2,329.3	-3,122.9	-5.4	3,122.9	0.00	484,039.25	423,727.26
5,300.0	89.86	180.10	2,329.6	-3,222.9	-5.6	3,222.9	0.00	483,939.26	423,727.09
5,400.0	89.86	180.10	2,329.8	-3,322.9	-5.8	3,322.9	0.00	483,839.26	423,726.91
5,500.0	89.86	180.10	2,330.1	-3,422.9	-6.0	3,422.9	0.00	483,739.26	423,726.74
5,600.0	89.86	180.10	2,330.3	-3,522.9	-6.1	3,522.9	0.00	483,639.26	423,726.57
5,700.0	89.86	180.10	2,330.6	-3,622.9	-6.3	3,622.9	0.00	483,539.26	423,726.39
5,800.0	89.86	180.10	2,330.8	-3,722.9	-6.5	3,722.9	0.00	483,439.26	423,726.22
5,900.0	89.86	180.10	2,331.1	-3,822.9	-6.7	3,822.9	0.00	483,339.26	423,726.04
6,000.0	89.86	180.10	2,331.3	-3,922.9	-6.8	3,922.9	0.00	483,239.26	423,725.87
6,100.0	89.86	180.10	2,331.6	-4,022.9	-7.0	4,022.9	0.00	483,139.26	423,725.69
6,200.0	89.86	180.10	2,331.8	-4,122.9	-7.2	4,122.9	0.00	483,039.26	423,725.52
6,300.0	89.86	180.10	2,332.1	-4,222.9	-7.4	4,222.9	0.00	482,939.26	423,725.35
6,400.0	89.86	180.10	2,332.3	-4,322.9	-7.5	4,322.9	0.00	482,839.26	423,725.17
6,500.0	89.86	180.10	2,332.6	-4,422.9	-7.7	4,422.9	0.00	482,739.26	423,725.00
6,600.0	89.86	180.10	2,332.8	-4,522.9	-7.9	4,522.9	0.00	482,639.26	423,724.82
6,671.5	89.86	180.10	2,333.0	-4,594.4	-8.0	4,594.4	0.00	482,567.80	423,724.70





**MEC**  
MEC Survey Report



**Company:** Mack Energy Corp  
**Project:** Eddy County  
**Site:** Bishop State #1H  
**Well:** State #1H  
**Wellbore:** #1H  
**Design:** Plan #1

**Local Co-ordinate Reference:** Site Bishop State #1H  
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**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

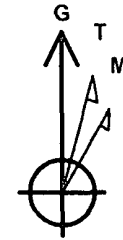
Checked By: _____	Approved By: _____	Date: _____
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# SITE DETAILS: Bishop State #1H

Site Centre Northing: 487162.20  
Easting: 423732.70

Positional Uncertainty: 0.0  
Convergence: -0.13  
Local North: Grid



Azimuths to Grid North  
True North: 0.13°  
Magnetic North: 8.01°

Magnetic Field  
Strength: 48473.1nT  
Dip Angle: 60.11°  
Date: 10/29/2012  
Model: IGRF200510

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1750.0	0.00	0.00	1750.0	0.0	0.0	0.00	0.00	0.0	
3	2649.1	89.91	180.10	2323.0	-572.1	-1.0	10.00	180.10	572.1	
4	2677.0	89.91	180.10	2323.0	-600.0	-1.0	0.00	0.00	600.0	600VS Bishop #1
5	2688.1	89.86	180.10	2323.0	-611.1	-1.1	0.50	-179.72	611.1	
6	6671.5	89.86	180.10	2333.0	-4594.4	-8.0	0.00	0.00	4594.4	BHL Bishop #1

## DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
600VS Bishop #1	2323.0	-600.0	-1.0	486562.20	423731.62	20° 14.76' N	104° 34' 48.982 W	Point
- plan hits target center								
BHL Bishop #1	2333.0	-4594.4	-8.0	482567.80	423724.32	19° 35.23' N	104° 34' 48.956 W	Point
- plan hits target center								

330 FSL and 330 FEL are Hard Lines.  
We can be north, west, or northwest,  
but not south, east, or southeast. From  
BHL the well is 25' north or the South hard  
line and 25' west of the east hard line.

