

District I
1625 N French Dr., Hobbs, NM 88240
District II
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 for closure, submit to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use 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.

1.
Operator: _____ Devon Energy Production Co., LP _____ OGRID #: _____ 6137 _____
Address: _____ 333 W. Sheridan, OKC, OK 73102-8260 _____
Facility or well name: _____ Lone Tree Draw 13 State 2H _____
API Number 30-015-40372 _____ OCD Permit Number: 213069 _____
U/L or Qtr/Qtr D _____ Section 13 _____ Township 21S _____ Range 27E _____ County: Eddy County, NM _____
Center of Proposed Design: Latitude _____ Longitude _____ NAD: ☐ 1927 ☐ 1983
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
Operation: ☒ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) ☐ P&A
☒ Above Ground Steel Tanks or ☒ Haul-off Bins

3.
Signs: Subsection C of 19.15.17.11 NMAC
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
☒ Signed in compliance with 19.15.3.103 NMAC

RECEIVED

JUN 07 2012

NMOCD ARTESIA

4.
Closed-loop Systems Permit Application Attachment Checklist: 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.
☒ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☒ 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
☐ Previously Approved Design (attach copy of design) API Number: _____
☐ Previously Approved Operating and Maintenance Plan API Number: _____

5.
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (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: _____ CRI _____ Disposal Facility Permit Number: _____ R9166 _____
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?
☐ Yes (If yes, please provide the information below) ☒ No
Required for impacted areas which will not be used for future service and operations:
☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

6.
Operator Application Certification:
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): _____ Judy A. Barnett _____ Title: _____ Regulatory Specialist _____
Signature: _____ Date: 6/5/12 _____
e-mail address: _____ Judith.Barnett@dvn.com _____ Telephone: _____ 405.228.8699 _____

7. **OCD Approval:** ☒ Permit Application (including closure plan) ☐ Closure Plan (only)

OCD Representative Signature: JDade Approval Date: 06/13/2012

Title: DIST #1 Sepen OCD Permit Number: 213069

8. **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: _____

9. **Closure Report 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: _____ Disposal Facility Permit Number: _____

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

10. **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.

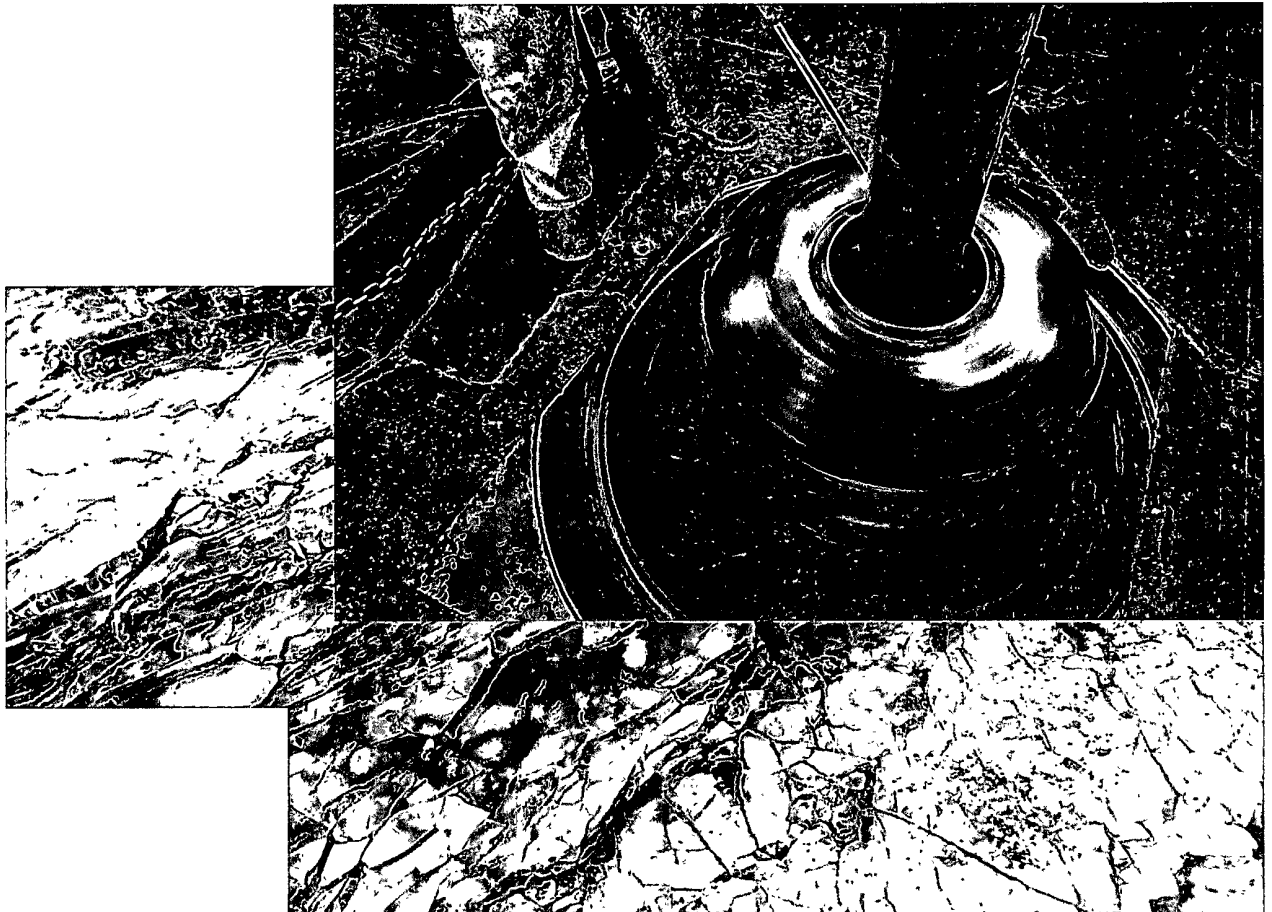
Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____



Commitment Runs Deep



Design Plan
Operation and Maintenance Plan
Closure Plan

SENM - Closed Loop Systems
June 2010

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

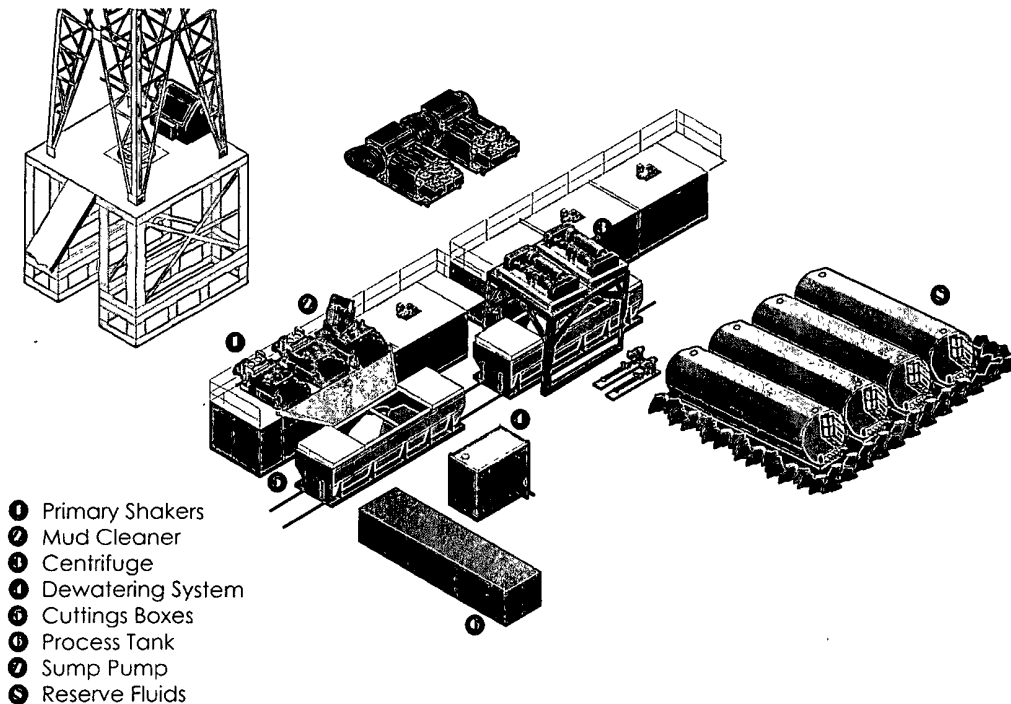
II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Closed Loop Schematic



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.

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

Form C-102
Revised October 15, 2009
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 24330	³ Pool Name FENTON DELAWARE; NORTHWEST
⁴ Property Code	⁵ Property Name LONE TREE DRAW "13" STATE		⁶ Well Number 2H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		⁹ Elevation 3192.1

" Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	21 S	27 E		150	NORTH	750	WEST	EDDY

" Bottom Hole Location If Different From Surface

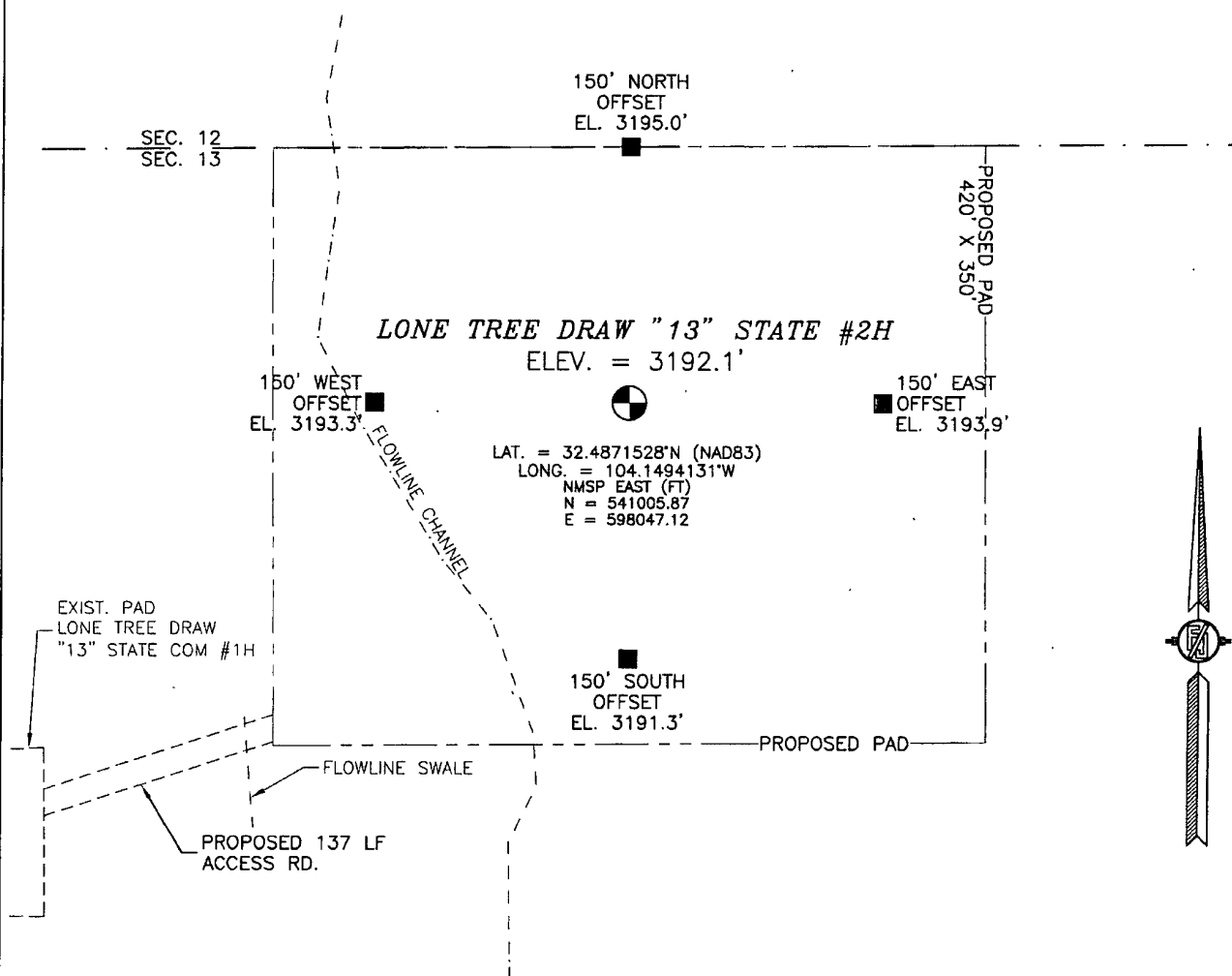
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	13	21 S	27 E		330	SOUTH	330	WEST	EDDY

¹⁰ Dedicated Acres 160	¹¹ Joint or Infill	¹² Consolidation Code	¹³ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p>S89°39'37"W 2682.92 FT</p> <p>750'</p> <p>SW CORNER SEC. 13 LAT. = 32.4875564°N LONG. = 104.1518460°W</p> <p>NMSP EAST (FT) N = 541151.41 E = 597296.70</p> <p>SURFACE LOCATION</p> <p>LONE TREE DRAW "13" STATE #2H ELEV. = 3192.1 LAT. = 32.4871528°N (NAD83) LONG. = 104.1394131°W</p> <p>NMSP EAST (FT) N = 541005.87 E = 598047.12</p> <p>W O CORNER SEC. 13 LAT. = 32.4802578°N LONG. = 104.1518272°W</p> <p>NMSP EAST (FT) N = 538496.22 E = 597307.03</p> <p>BOTTOM OF HOLE LAT. = 32.4738884°N LONG. = 104.1507211°W</p> <p>NMSP EAST (FT) N = 536179.64 E = 597652.05</p> <p>BOTTOM OF HOLE</p> <p>SW CORNER SEC. 13 LAT. = 32.4729694°N LONG. = 104.1517858°W</p> <p>NMSP EAST (FT) N = 535844.76 E = 597324.31</p> <p>N89°08'22"E 2677.85 FT</p>		<p>S89°38'05"W 2684.65 FT</p> <p>N O CORNER SEC. 13 LAT. = 32.4875872°N LONG. = 104.1431449°W</p> <p>NMSP EAST (FT) N = 541167.32 E = 599979.57</p> <p>NE CORNER SEC. 13 LAT. = 32.4876208°N LONG. = 104.1344381°W</p> <p>NMSP EAST (FT) N = 541184.43 E = 602664.17</p> <p>E O CORNER SEC. 13 LAT. = 32.4803890°N LONG. = 104.1344261°W</p> <p>NMSP EAST (FT) N = 538553.51 E = 602672.78</p> <p>S O CORNER SEC. 13 LAT. = 32.4730671°N LONG. = 104.1431031°W</p> <p>NMSP EAST (FT) N = 535884.98 E = 600001.86</p> <p>N89°08'32"E 2679.16 FT</p>		<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</p> <p><i>Judy A. Barnett</i> 6/6/12 Signature Date</p> <p>Printed Name Judy A. Barnett Regulatory Specialist</p> <p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</p> <p>MAY 15 2012 Date of Survey</p> <p><i>James P. Jaramillo</i> Signature and Seal of Professional Surveyor</p> <p>Certificate Number 12797 JAMES P. JARAMILLO, PLS 12797 SURVEY NO. 1069</p>
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SECTION 13, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR 206 (ILLINOIS CAMP) AND SR 200 (GEORGE SHOUP, RELIEF ROUTE) GO NORTH ON CR 206 1.3 MILES TO CR 600 (RAINS ROAD) ON THE RIGHT GO EAST ON CR 600 2.1 MILES (RAMBO BOOSTER) PAVEMENT ENDS. CONTINUE EAST ON CALICHE ROAD 0.25 MILES CALICHE ROAD ON RIGHT ACROSS FROM BORROW PIT. GO RIGHT ON CALICHE ROAD 2.75 MILES TO AN INTERSECTION EAST OF CATTLE GUARD CONTINUE EAST ON CALICHE ROAD, ROAD TURNS NORTH 800 FT TO EXISTING PAD SITE LIES ABOUT 200 FT NORTHEAST OF EXISTING PAD.

DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW "13" STATE #2H
LOCATED 150 FT. FROM THE NORTH LINE
AND 750 FT. FROM THE WEST LINE OF
SECTION 13, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 15, 2012

SURVEY NO. 1069

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

This topographic map depicts the Lone Tree Draw area, State #2H. The map features a grid system with coordinates ranging from 3183T to 3225T and 3159T to 3200T. Key locations and features include:

- Lone Tree Draw "13" State #2H**: The central focus of the map.
- Lone Tree Com #11**: A community or landmark located near the center.
- Proposed 137 LF Access Rd.**: A road project indicated by a dashed line.
- Beker**: A location marked near the bottom right.
- Topographic Features**: Contour lines, spot elevations (e.g., 3200T, 3198, 3186T), and various symbols for water (GW), dry holes (DH), and other terrain features.
- Map Orientation**: A north arrow is located in the bottom right corner.

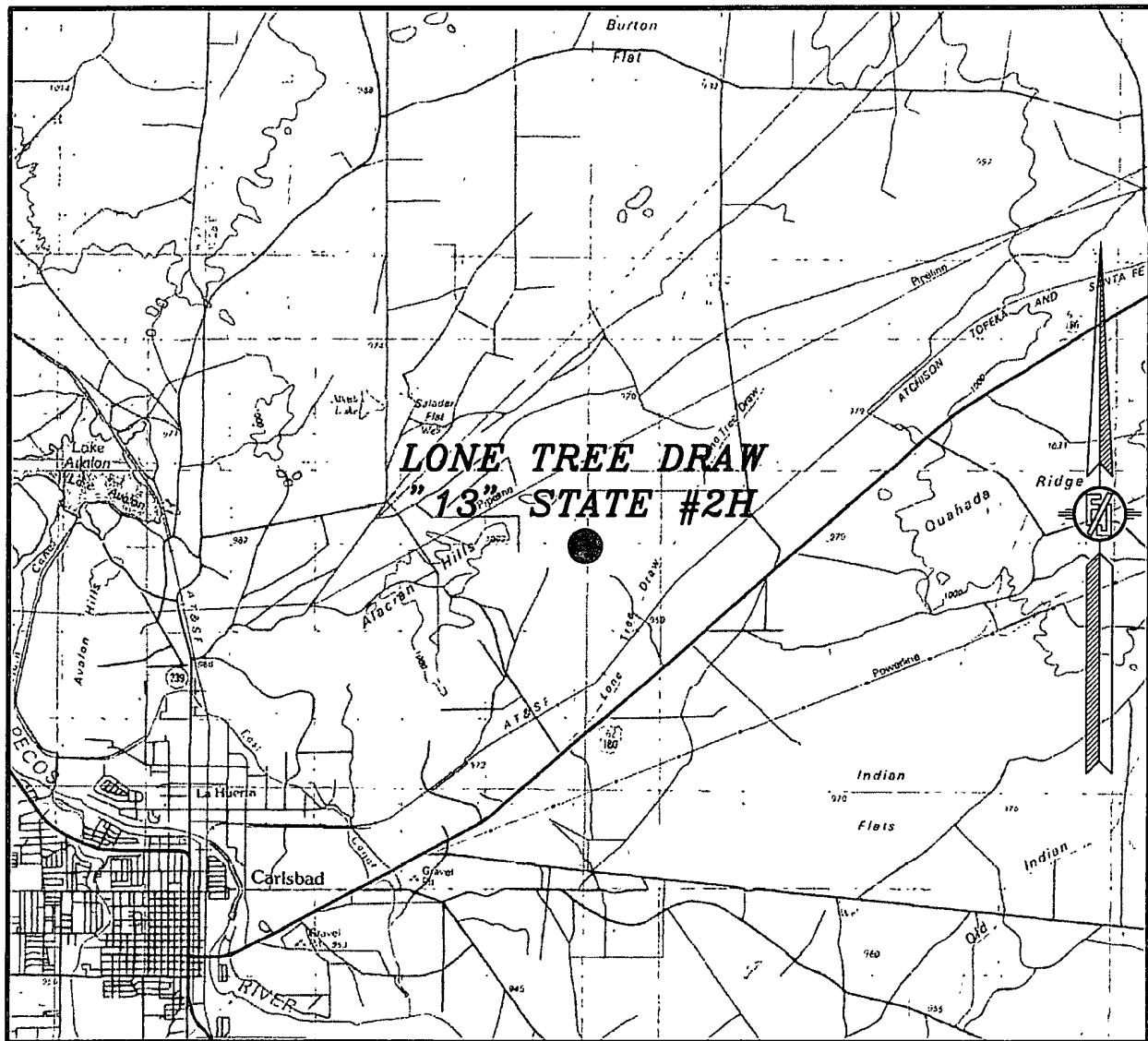
NOT TO SCALE

MAY 15, 2012

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

301 SOUTH CANAL
(575) 234-3341

SECTION 13, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

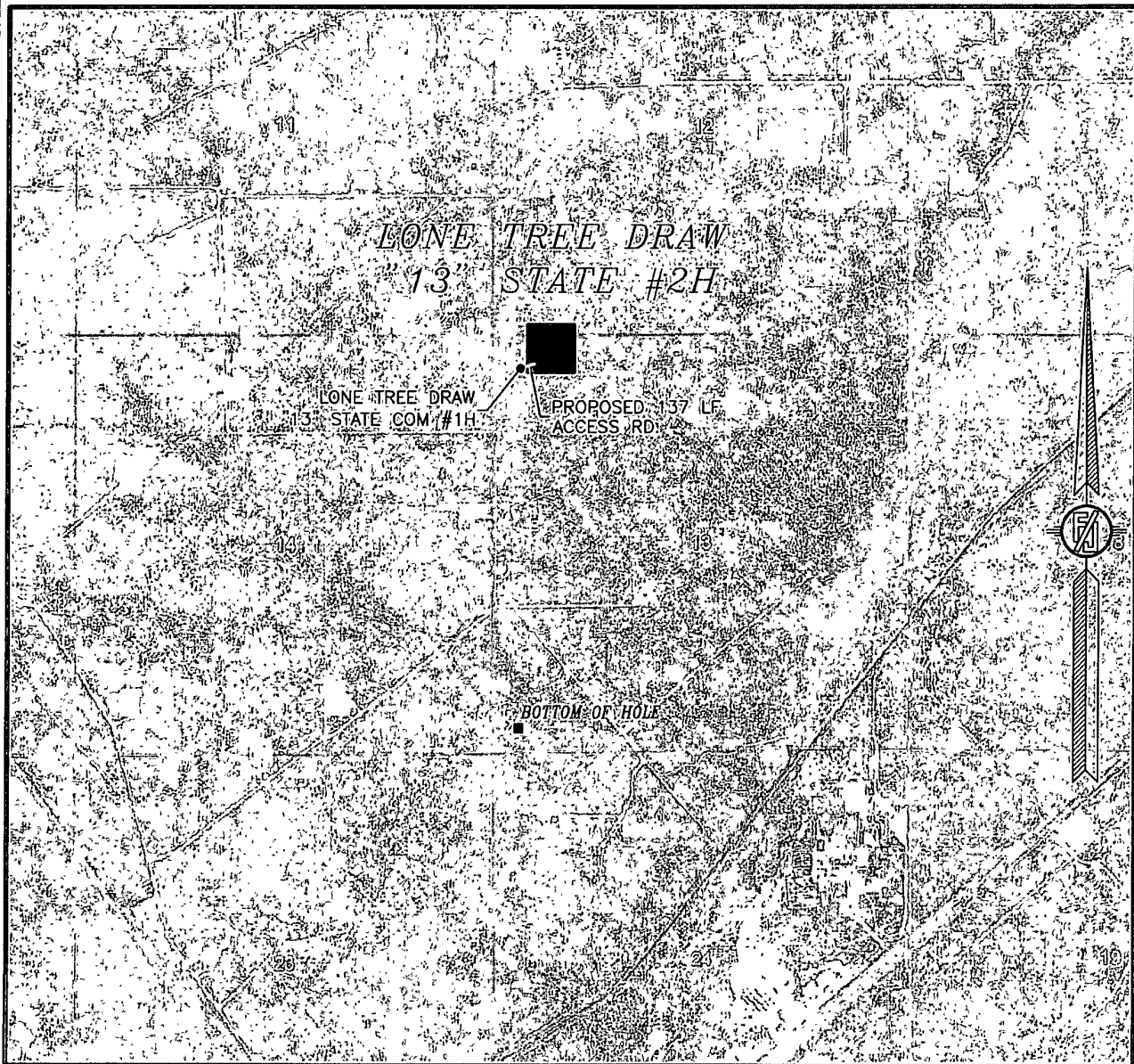
DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW "13" STATE #2H
LOCATED 150 FT. FROM THE NORTH LINE
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EDDY COUNTY, STATE OF NEW MEXICO

MAY 15, 2012

SURVEY NO. 1069

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 13, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
JUNE, 2011

DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW "13" STATE #2H
LOCATED 150 FT. FROM THE NORTH LINE
AND 750 FT. FROM THE WEST LINE OF
SECTION 13, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SURVEY NO. 1069

MAY 15, 2012

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

Devon Energy Corporation

HALLIBURTON | Sperry Drilling

Project: Eddy County, NM (NAD 83)
Site: Lone Tree Draw "13" State Well #2H
Well: Lone Tree Draw "13" State #2H
Wellbore: Wellbore #1
Plan: Plan #1
Rig: H & P 223



SURFACE LOCATION

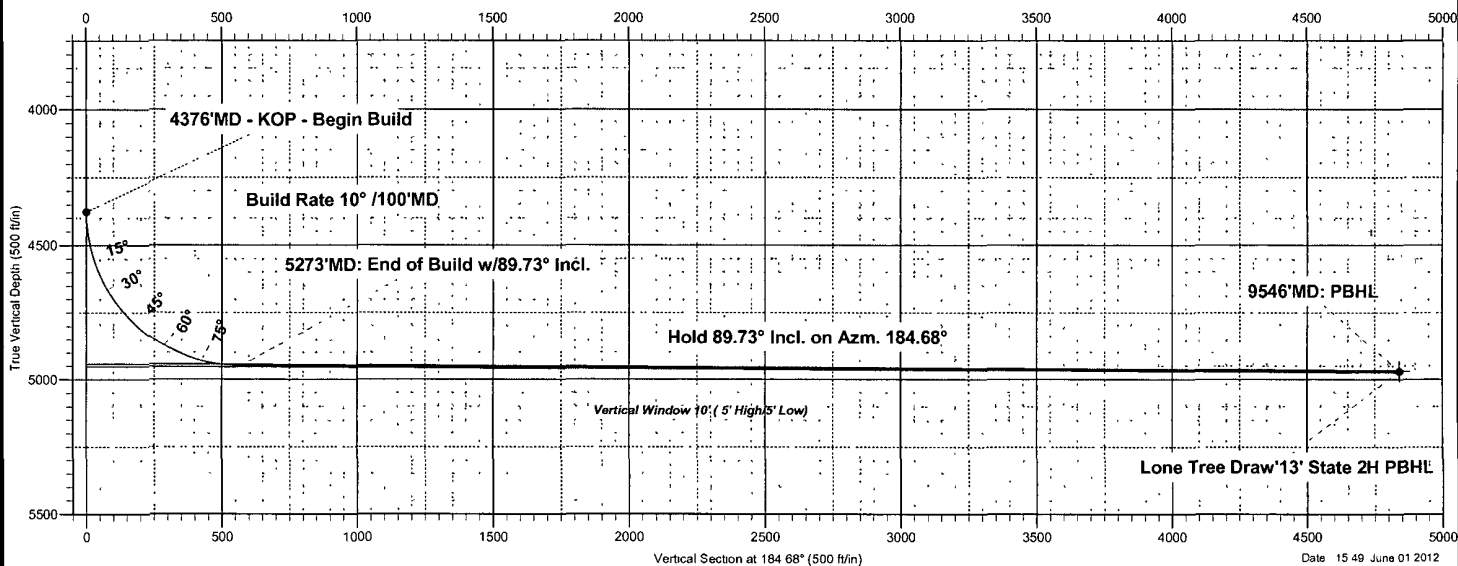
US State Plane 1983
New Mexico Eastern Zone
Elevation: GL 3192 1' + 25' @ 3217 10ft (H & P 223)
Northing: 541005 87 Easting: 598047 12 Latitude: 32° 29' 13 750 N Longitude: 104° 8' 57 887 W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Lone Tree Draw'13' State 2H PBHL	4969 00	-4826 23	-395 07	536179 64	597652 05	Rectangle (Sides L4842 37 W50 00)

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	
4376 05	0 00	0 00	4376 05	0 00	0 00	0 00	0 00	0 00	4376'MD - KOP - Begin Build
5273 37	89 73	184 68	4949 00	-568 37	-46 53	10 00	184 68	570 28	5273'MD End of Build w/89 73° Incl
9545 51	89 73	184 68	4969 00	-4826 23	-395 07	0 00	0 00	4842 37	9546'MD PBHL

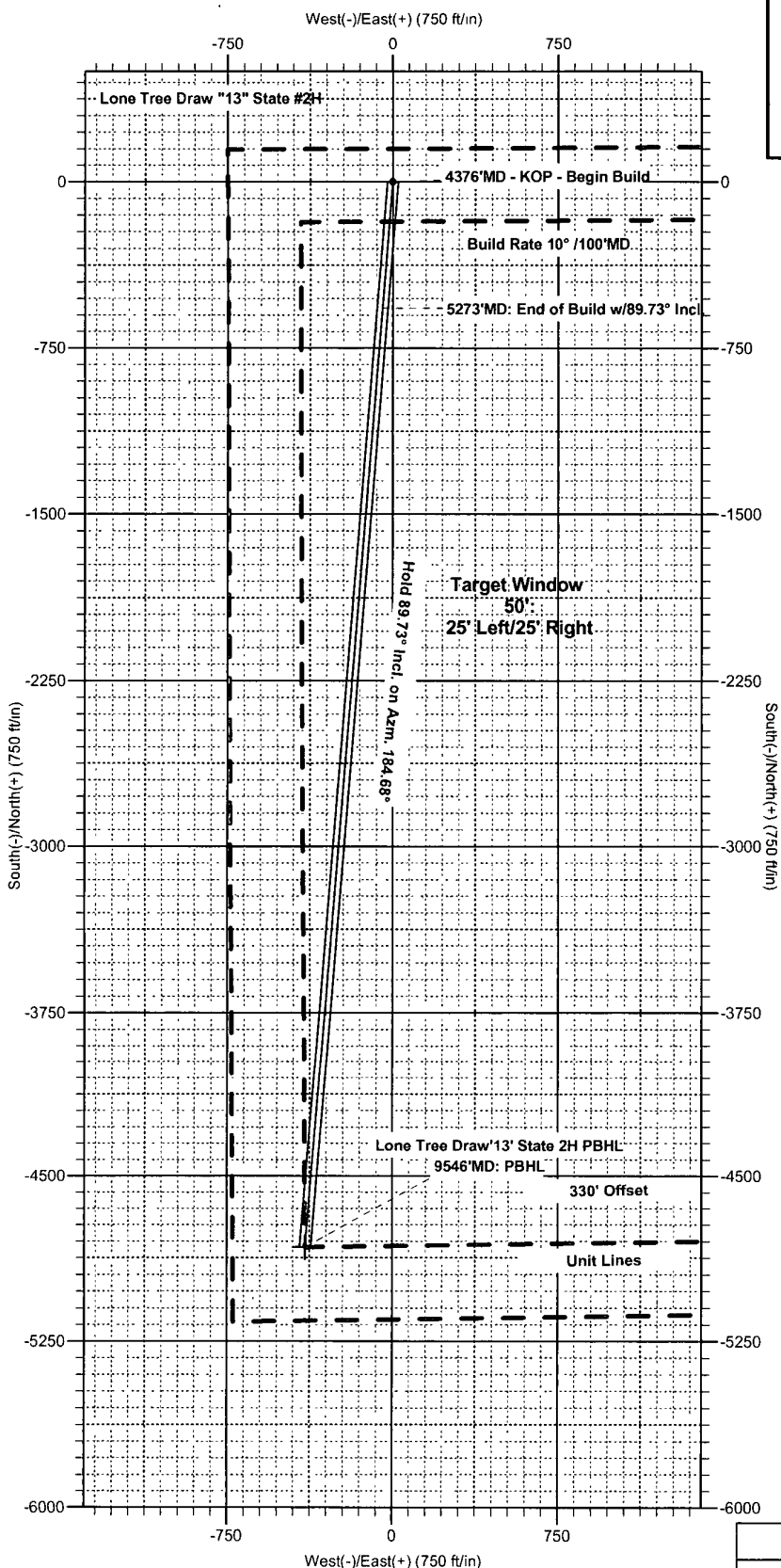


Project: Eddy County, NM (NAD 83)
 Site: Lone Tree Draw "13" State Well #2H
 Well: Lone Tree Draw "13" State #2H
 Wellbore: Wellbore #1
 Plan: Plan #1
 Rig: H & P 223



SURFACE LOCATION

US State Plane 1983
 New Mexico Eastern Zone
 Elevation GL 3192 1' + 25' @ 3217 10ft (H & P 223)
 Northing 541005 87 Easting 598047 12 Latitude 32° 29' 13 750 N Longitude 104° 8' 57 887 W



To convert a Magnetic Direction to a Grid Direction, Add 7.74°

Magnetic Model BGGM2011 Date 01-Jun-12
 Azimuths to Grid North

Devon Energy Corporation

Eddy County, NM (NAD 83)

Lone Tree Draw "13" State Well #2H

Lone Tree Draw "13" State #2H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Proposal Report

01 June, 2012

Well Coordinates: 541,005 87 N, 598,047 12 E (32° 29' 13 75" N, 104° 08' 57 89" W)
Ground Level: 3,192.10 ft

Local Coordinate Origin:	Centered on Well Lone Tree Draw "13" State #2H
Viewing Datum:	GL 3192.1' + 25' @ 3217 10ft (H & P 223)
TVDs to System:	N
North Reference:	Grid
Unit System:	API - US Survey Feet

Version: 2003 16 Build: 431

HALLIBURTON

Plan Report for Lone Tree Draw "13" State #2H - 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
4,376 05	0.00	0.00	4,376 05	0 00	0 00	0 00	0.00	0 00	0.00	0 00
4376'MD - KOP - Begin Build										
4,386 00	1 00	184 68	4,386 00	-0.09	-0 01	0 09	10 00	10.00	0 00	184.68
Build Rate 10° /100'MD										
4,400 00	2 40	184 68	4,399.99	-0.50	-0 04	0.50	10.00	10 00	0.00	0 00
4,500 00	12 40	184 68	4,499 04	-13.31	-1.09	13.36	10 00	10 00	0 00	0 00
4,600.00	22.40	184 68	4,594 34	-43 07	-3 53	43 21	10 00	10.00	0 00	0 00
4,700 00	32.40	184 68	4,683 01	-88 87	-7.27	89.17	10 00	10 00	0.00	0 00
4,800.00	42.40	184 68	4,762.36	-149.32	-12.22	149.82	10.00	10 00	0 00	0 00
4,900.00	52.40	184 68	4,829 97	-222 59	-18.22	223.33	10 00	10 00	0 00	0.00
5,000 00	62.40	184 68	4,883 78	-306 44	-25.08	307.46	10 00	10 00	0 00	0 00
5,100 00	72.40	184 68	4,922 17	-398 33	-32 61	399.66	10.00	10 00	0 00	0 00
5,200 00	82.40	184 68	4,943 97	-495 47	-40 56	497 13	10.00	10 00	0 00	0 00
5,273.37	89 73	184 68	4,949 00	-568.37	-46 53	570 28	10 00	10.00	0.00	0 00

Plan Report for Lone Tree Draw "13" State #2H - 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 (°)
5273'MD: End of Build w/89.73° Incl.										
5,290.00	89.73	184.68	4,949.08	-584.95	-47.88	586.91	0.00	0.00	0.00	0.00
Hold 89.73° Incl. on Azm. 184.68°										
5,300.00	89.73	184.68	4,949.13	-594.92	-48.70	596.91	0.00	0.00	0.00	0.00
5,400.00	89.73	184.68	4,949.59	-694.58	-56.86	696.91	0.00	0.00	0.00	0.00
5,500.00	89.73	184.68	4,950.06	-794.25	-65.02	796.91	0.00	0.00	0.00	0.00
5,600.00	89.73	184.68	4,950.53	-893.91	-73.17	896.90	0.00	0.00	0.00	0.00
5,700.00	89.73	184.68	4,951.00	-993.58	-81.33	996.90	0.00	0.00	0.00	0.00
5,800.00	89.73	184.68	4,951.47	-1,093.25	-89.49	1,096.90	0.00	0.00	0.00	0.00
5,900.00	89.73	184.68	4,951.93	-1,192.91	-97.65	1,196.90	0.00	0.00	0.00	0.00
6,000.00	89.73	184.68	4,952.40	-1,292.58	-105.81	1,296.90	0.00	0.00	0.00	0.00
6,100.00	89.73	184.68	4,952.87	-1,392.24	-113.97	1,396.90	0.00	0.00	0.00	0.00
6,200.00	89.73	184.68	4,953.34	-1,491.91	-122.13	1,496.90	0.00	0.00	0.00	0.00
6,300.00	89.73	184.68	4,953.81	-1,591.57	-130.28	1,596.90	0.00	0.00	0.00	0.00
6,400.00	89.73	184.68	4,954.28	-1,691.24	-138.44	1,696.90	0.00	0.00	0.00	0.00
6,500.00	89.73	184.68	4,954.74	-1,790.90	-146.60	1,796.89	0.00	0.00	0.00	0.00
6,600.00	89.73	184.68	4,955.21	-1,890.57	-154.76	1,896.89	0.00	0.00	0.00	0.00
6,700.00	89.73	184.68	4,955.68	-1,990.24	-162.92	1,996.89	0.00	0.00	0.00	0.00
6,800.00	89.73	184.68	4,956.15	-2,089.90	-171.08	2,096.89	0.00	0.00	0.00	0.00
6,900.00	89.73	184.68	4,956.62	-2,189.57	-179.24	2,196.89	0.00	0.00	0.00	0.00
7,000.00	89.73	184.68	4,957.08	-2,289.23	-187.39	2,296.89	0.00	0.00	0.00	0.00
7,100.00	89.73	184.68	4,957.55	-2,388.90	-195.55	2,396.89	0.00	0.00	0.00	0.00
7,200.00	89.73	184.68	4,958.02	-2,488.56	-203.71	2,496.89	0.00	0.00	0.00	0.00
7,300.00	89.73	184.68	4,958.49	-2,588.23	-211.87	2,596.89	0.00	0.00	0.00	0.00
7,400.00	89.73	184.68	4,958.96	-2,687.89	-220.03	2,696.88	0.00	0.00	0.00	0.00
7,500.00	89.73	184.68	4,959.42	-2,787.56	-228.19	2,796.88	0.00	0.00	0.00	0.00
7,600.00	89.73	184.68	4,959.89	-2,887.22	-236.35	2,896.88	0.00	0.00	0.00	0.00
7,700.00	89.73	184.68	4,960.36	-2,986.89	-244.50	2,996.88	0.00	0.00	0.00	0.00
7,800.00	89.73	184.68	4,960.83	-3,086.56	-252.66	3,096.88	0.00	0.00	0.00	0.00
7,900.00	89.73	184.68	4,961.30	-3,186.22	-260.82	3,196.88	0.00	0.00	0.00	0.00
8,000.00	89.73	184.68	4,961.77	-3,285.89	-268.98	3,296.88	0.00	0.00	0.00	0.00
8,100.00	89.73	184.68	4,962.23	-3,385.55	-277.14	3,396.88	0.00	0.00	0.00	0.00
8,200.00	89.73	184.68	4,962.70	-3,485.22	-285.30	3,496.88	0.00	0.00	0.00	0.00
8,300.00	89.73	184.68	4,963.17	-3,584.88	-293.45	3,596.87	0.00	0.00	0.00	0.00
8,400.00	89.73	184.68	4,963.64	-3,684.55	-301.61	3,696.87	0.00	0.00	0.00	0.00
8,500.00	89.73	184.68	4,964.11	-3,784.21	-309.77	3,796.87	0.00	0.00	0.00	0.00
8,600.00	89.73	184.68	4,964.57	-3,883.88	-317.93	3,896.87	0.00	0.00	0.00	0.00
8,700.00	89.73	184.68	4,965.04	-3,983.55	-326.09	3,996.87	0.00	0.00	0.00	0.00
8,800.00	89.73	184.68	4,965.51	-4,083.21	-334.25	4,096.87	0.00	0.00	0.00	0.00
8,900.00	89.73	184.68	4,965.98	-4,182.88	-342.41	4,196.87	0.00	0.00	0.00	0.00
9,000.00	89.73	184.68	4,966.45	-4,282.54	-350.56	4,296.87	0.00	0.00	0.00	0.00
9,100.00	89.73	184.68	4,966.91	-4,382.21	-358.72	4,396.87	0.00	0.00	0.00	0.00
9,200.00	89.73	184.68	4,967.38	-4,481.87	-366.88	4,496.86	0.00	0.00	0.00	0.00
9,300.00	89.73	184.68	4,967.85	-4,581.54	-375.04	4,596.86	0.00	0.00	0.00	0.00
9,400.00	89.73	184.68	4,968.32	-4,681.20	-383.20	4,696.86	0.00	0.00	0.00	0.00
9,500.00	89.73	184.68	4,968.79	-4,780.87	-391.36	4,796.86	0.00	0.00	0.00	0.00
9,545.51	89.73	184.68	4,969.00	-4,826.23	-395.07	4,842.37	0.00	0.00	0.00	0.00
9546'MD: PBHL - Lone Tree Draw'13' State 2H PBHL										

Plan Report for Lone Tree Draw "13" State #2H - Plan #1

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,376.05	4,376.05	0.00	0.00	4376'MD - KOP - Begin Build
4,386.00	4,386.00	-0.09	-0.01	Build Rate 10° /100'MD
5,273.37	4,949.00	-568.37	-46.53	5273'MD: End of Build w/89.73° Incl
5,290.00	4,949.08	-584.95	-47.88	Hold 89.73° Incl. on Azm. 184.68°
9,545.51	4,969.00	-4,826.23	-395.07	9546'MD - PBHL

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/-S (ft)	+E/-W (ft)	
TD	No Target (Freehand)	184.68	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	9,545.46	Plan #1	MWD

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Lone Tree Draw'13' State 2H PBHL	4,969.00	-4,826.23	-395.07	Rectangle

North Reference Sheet for Lone Tree Draw "13" State Well #2H - Lone Tree Draw "13" State #2H - 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 3192.1' + 25' @ 3217 10ft (H & P 223). Northing and Easting are relative to Lone Tree Draw "13" State #2H 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: 0.99991277

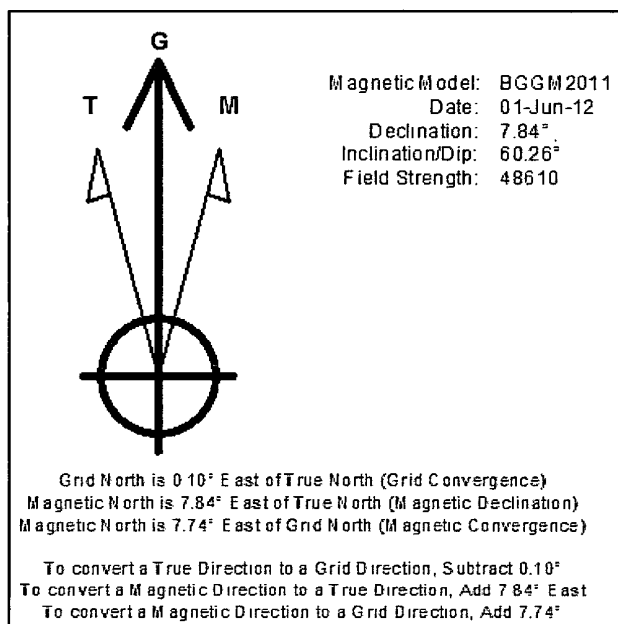
Grid Coordinates of Well: 541,005.87 ft N, 598,047.12 ft E

Geographical Coordinates of Well: 32° 29' 13.75" N, 104° 08' 57.89" W

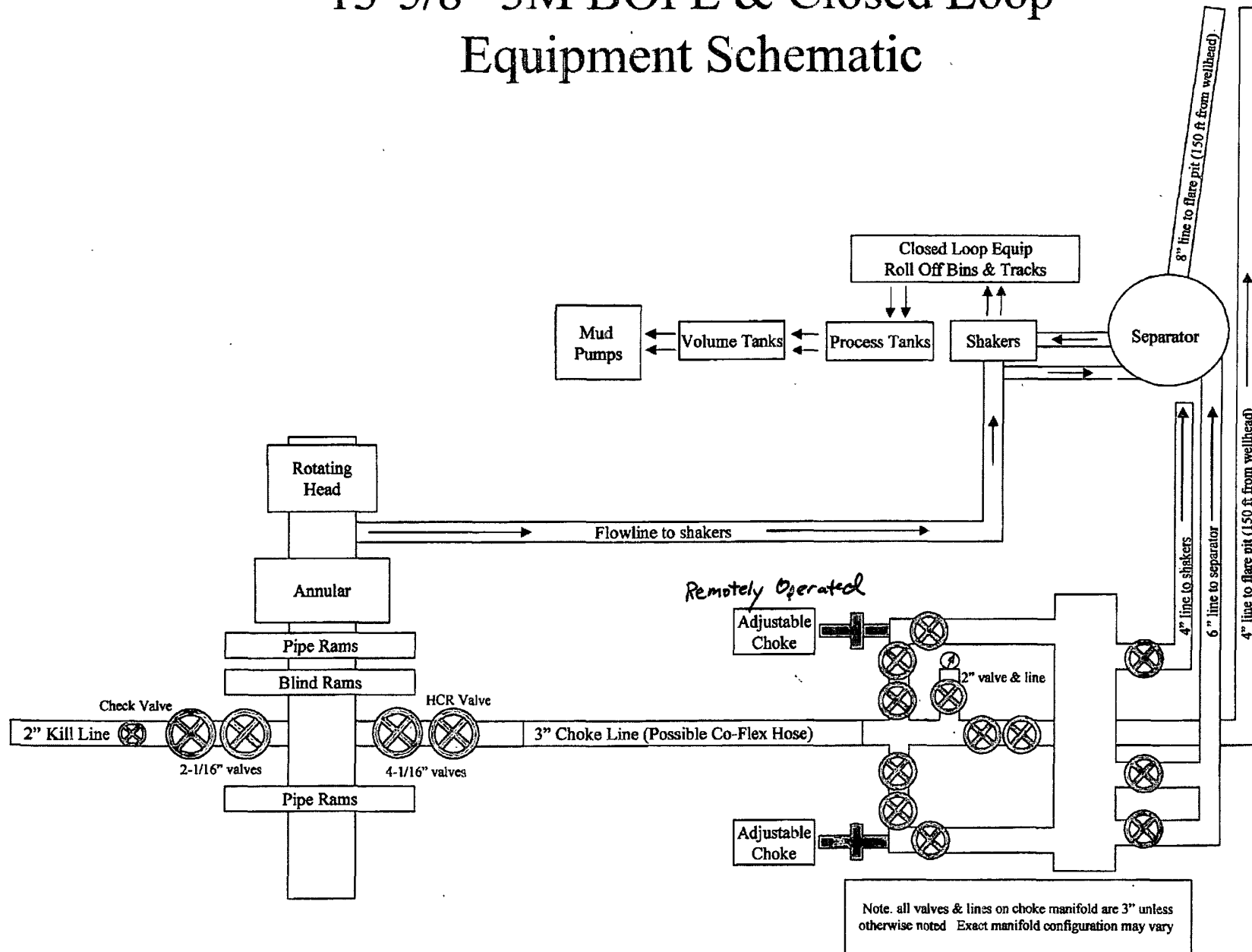
Grid Convergence at Surface is: 0.10°

Based upon Minimum Curvature type calculations, at a Measured Depth of 9,545.51ft the Bottom Hole Displacement is 4,842.37ft in the Direction of 184.68° (Grid).

Magnetic Convergence at surface is: -7.74° (1 June 2012, BGGM2011)



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



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

