Form 3160-5
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APROVED
OMB NO. 1004-0135
EXPIRES: March 31, 2007

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

SUBMIT IN TRIPLICATE

RECEIVED
APR 19 2010
NMOCD ARTESIA

1a. Type of Well ☑ Oil Well ☐ Gas Well ☐ Other	5. Lease Serial No. **NM-037489**
	6. If Indian, Allottee or Tribe Name
	7. Unit or CA Agreement Name and No.
2. Name of Operator **DEVON ENERGY PRODUCTION COMPANY, LP**	8 Well Name and No. **Cotton Draw Unit 114**
3. Address and Telephone No. 20 N. Broadway, Oklahoma City, Ok 73102-8260 405-235-3611	9. API Well No. **30-015-37410**
4. Location of Well (Report location clearly and in accordance with Federal requirements)* 330 FNL 1980 FEL B SEC 34 T24S R31E	10. Field and Pool, or Exploratory **Cotton Draw; Delaware**
	11. County or Parish State Eddy NM

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

TYPE OS SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Rig Layout Change
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof If the proposal deepen directionally or recomplete horizontally, give subsurface location 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirement, including reclamation, have been completed, and the operator has

Devon Energy Production Company L. P. *respectfully requests to deviate from the original APD to change tfrom a vertical well to a horizontal. See attached changes: C-102, Cementing Procedures, Directional Survey & One Mile Radius Map.*

Casing Program

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
17-1/2"	0 – 900	13-3/8"	0 – 900	48#	STC	H-40
12-1/4"	900 – 3,000	9-5/8"	0 – 3,000	36#	LTC	J-55
12-1/4"	3,000 – 4,350	9-5/8"	3,000 – 4,350	40#	LTC	J-55
8-1/2"	4,350 – 7,550	5-1/2"	0 – 7,550	17#	LTC	N-80
8-1/2"	7,550 – 12,502	5-1/2"	7,550 – 12,502	17#	BTC	N-80

Design Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
13-3/8"	1.83	4.11	7.45
9-5/8" 36# J-55 LTC	1.29	2.26	2.80
9-5/8" 40# J-55 LTC	1.14	1.75	9.63
5-1/2" 17# N-80 LTC	1.78	2.19	1.70
5-1/2" 17# N-80 BTC	1.61	1.99	5.83

Signed Judy A Barnett Name **Judy A. Barnett X8699**
Title Regulatory Analyst Date 3/25/2010

(This space for Federal or State Office use)

Approved by
Conditions of approval, if any:

Title

APPROVED
Date APR 15 2010
/s/ Dustin Winkler
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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

*See Instruction on Reverse Side

SEE ATTACHED FOR CONDITIONS OF APPROVAL

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., 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, New Mexico 87505

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		DELAWARE

Property Code	Property Name	Well Number
	COTTON DRAW UNIT	114

OGRID No.	Operator Name	Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3490'

Surface Location

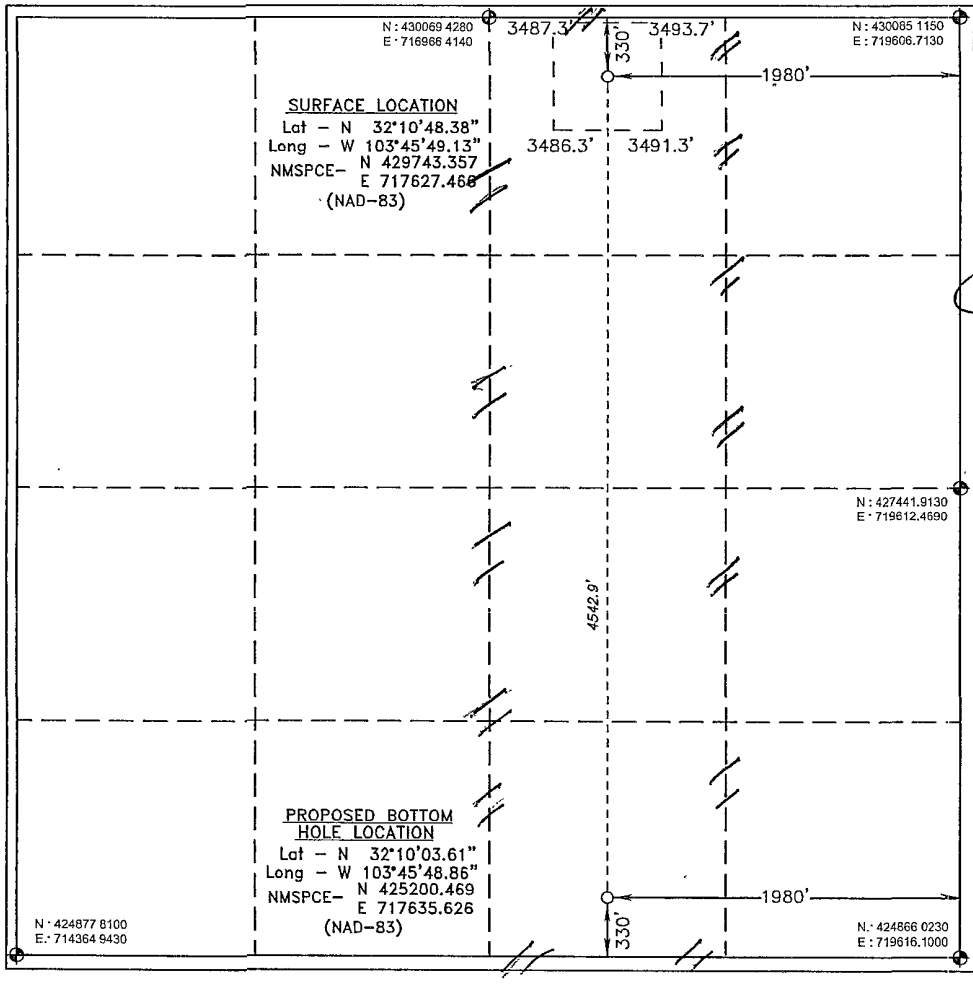
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	34	24 S	31 E		330	NORTH	1980	EAST	EDDY

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
O	34	24 S	31 E		330	SOUTH	1980	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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



OPERATOR CERTIFICATION

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 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.

Judy A. Barnett 3/17/10
Signature Date

Judy A. Barnett
Printed Name

Regulatory Analyst

SURVEYOR CERTIFICATION

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 supervison, and that the same is true and correct to the best of my belief.

AUGUST 26, 2005
Date Surveyed

Signature & Seal of Professional Surveyor

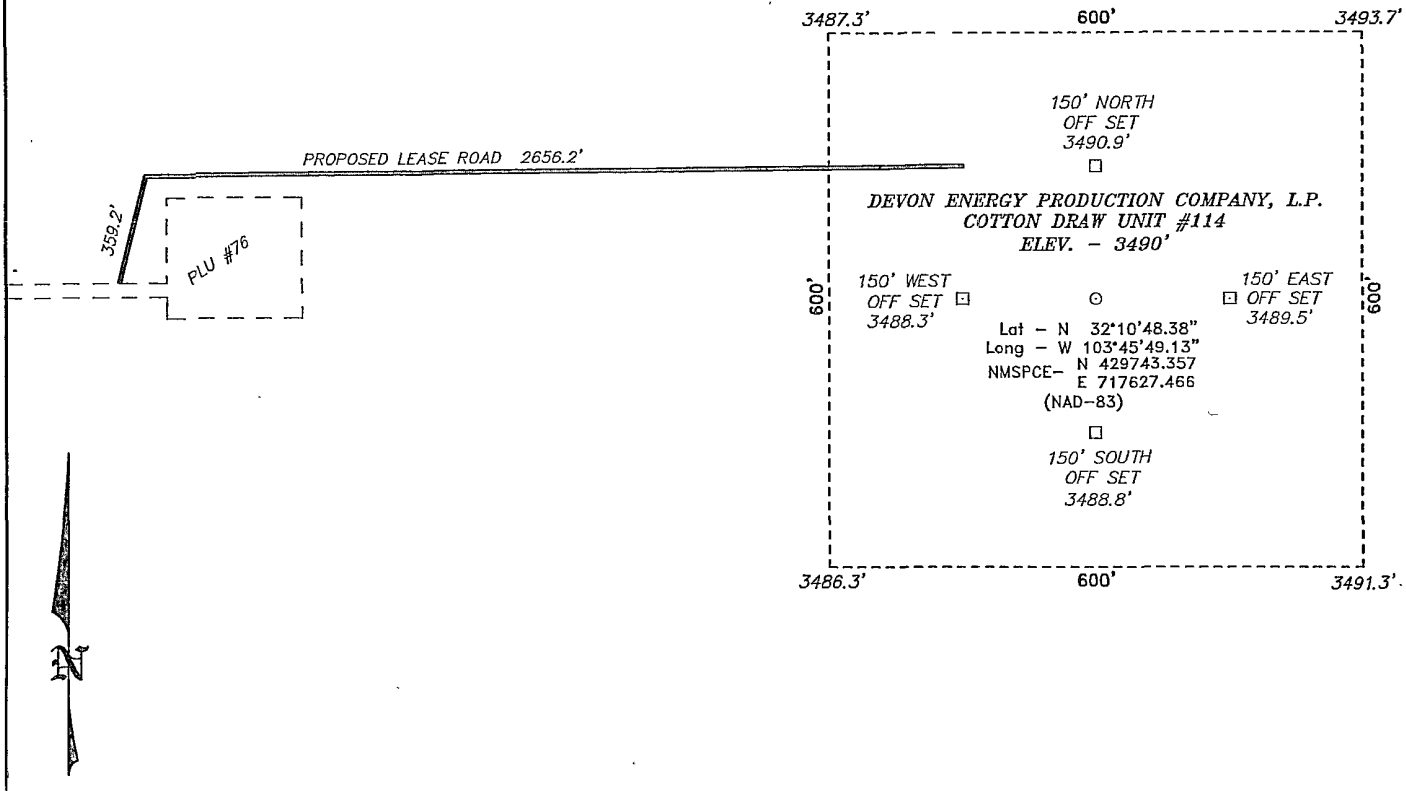
GARY L. JONES
NEW MEXICO
7977
REGISTERED PROFESSIONAL LAND SURVEYOR

W.O. 2

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

SECTION 34, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



200 0 200 400 FEET

SCALE: 1" = 200'

Directions to Location:

FROM THE JUNCTION OF BUCK JACKSON AND BUCK THORN, GO SOUTHEASTERLY FOR 1.1 MILES TO LEASE ROAD, THENCE GO EASTERLY FOR 0.3 MILES TO PROPOSED LEASE ROAD.

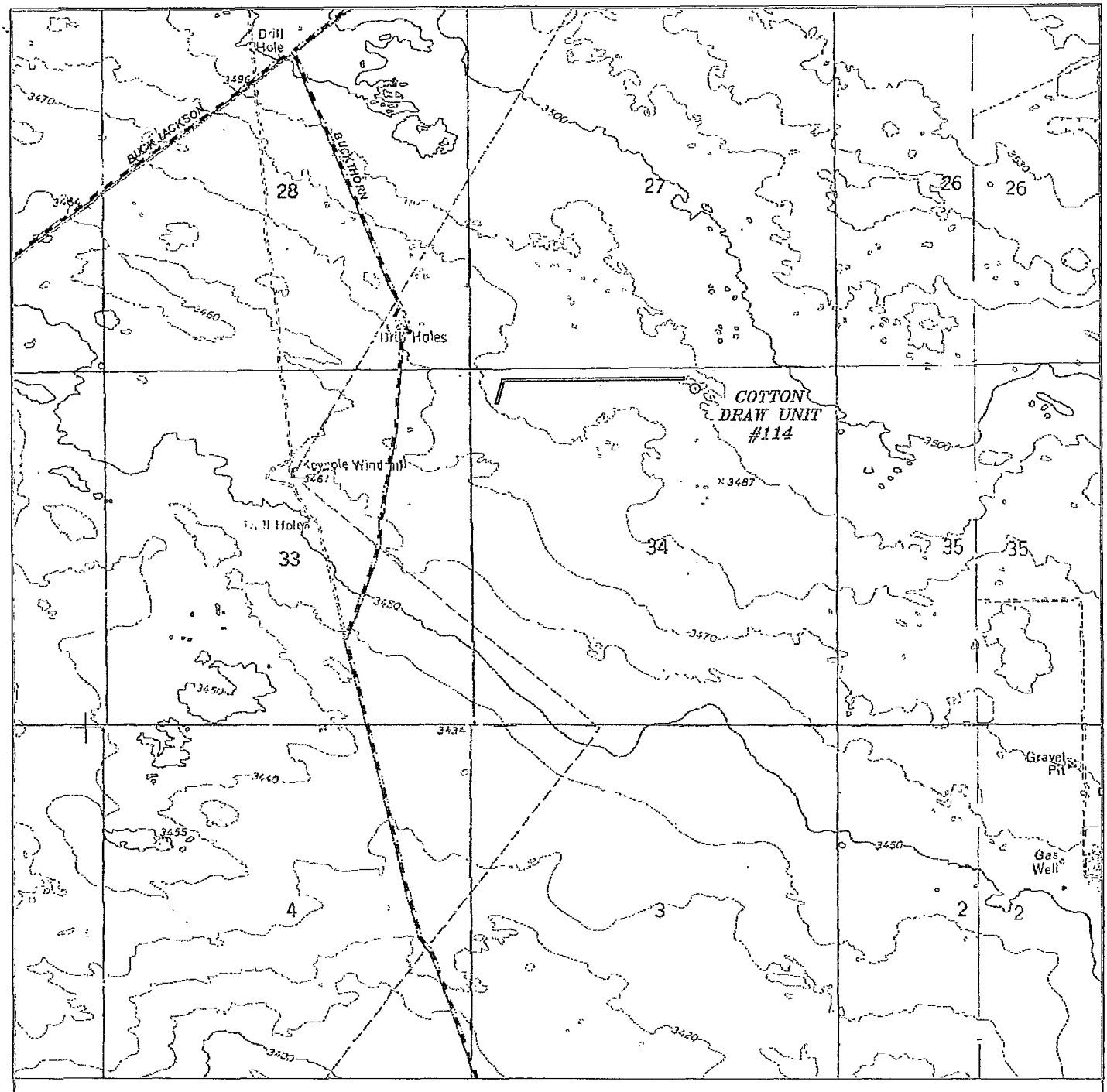
DEVON ENERGY PRODUCTION COMPANY, L.P.

REF: COTTON DRAW UNIT #114 / WELL PAD TOPO

THE COTTON DRAW UNIT #114 LOCATED 330' FROM THE NORTH LINE AND 1980' FROM THE EAST LINE OF SECTION 34, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 21663	Drawn By: J. SMALL		
Date: 09-01-2009	Disk: JMS 21663	Survey Date: 08-31-2009	Sheet 1 of 1 Sheets

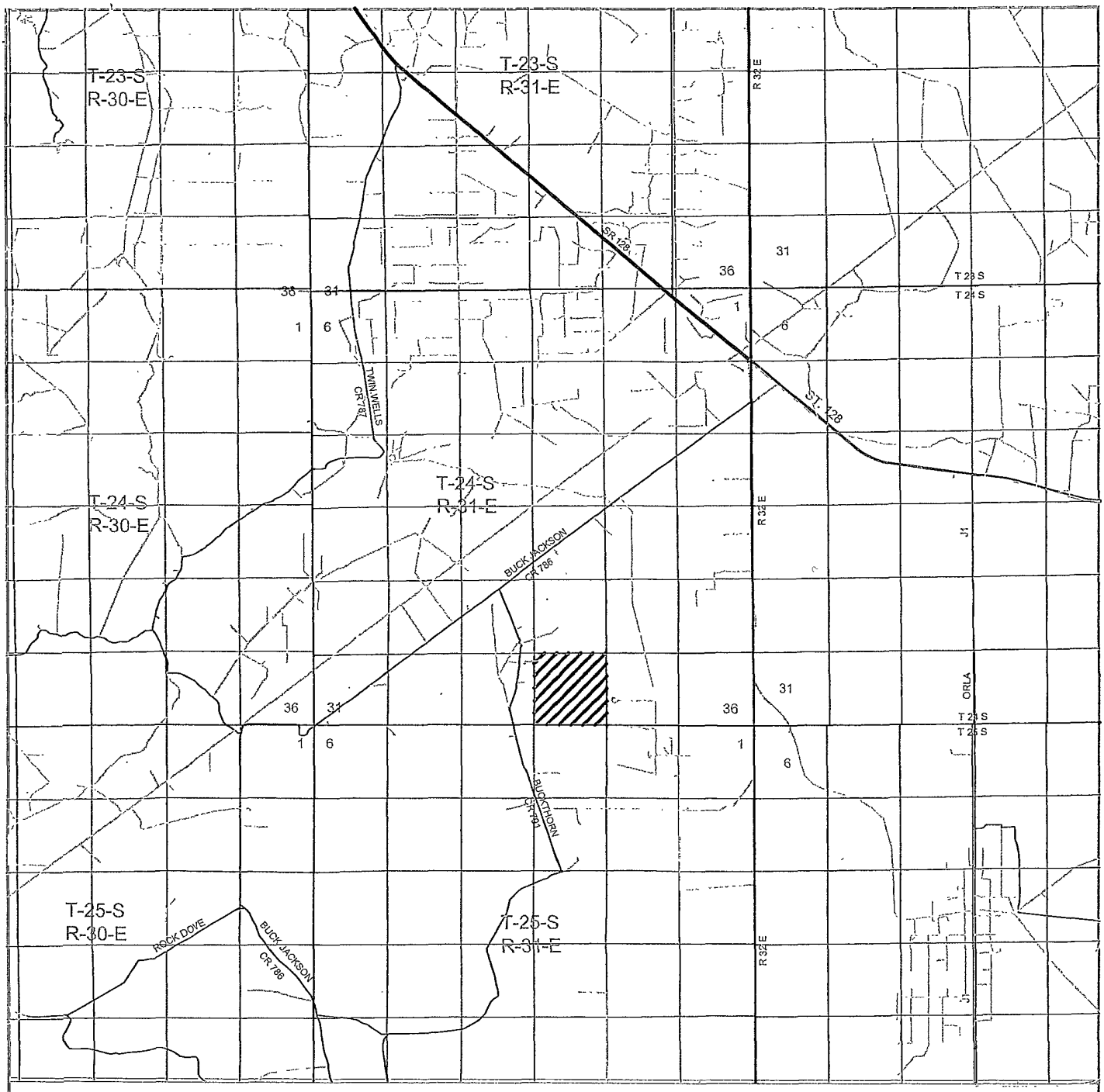


COTTON DRAW UNIT #114
Located 330' FNL and 1980' FEL
Section 34, Township 24 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.

Basin Surveys
focused on excellence in the oilfield
P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

W.O. Number:	JMS 21663
Survey Date:	08-31-2009
Scale:	1" = 2000'
Date:	09-01-2009

DEVON ENERGY PRODUCTION COMPANY, L.P.



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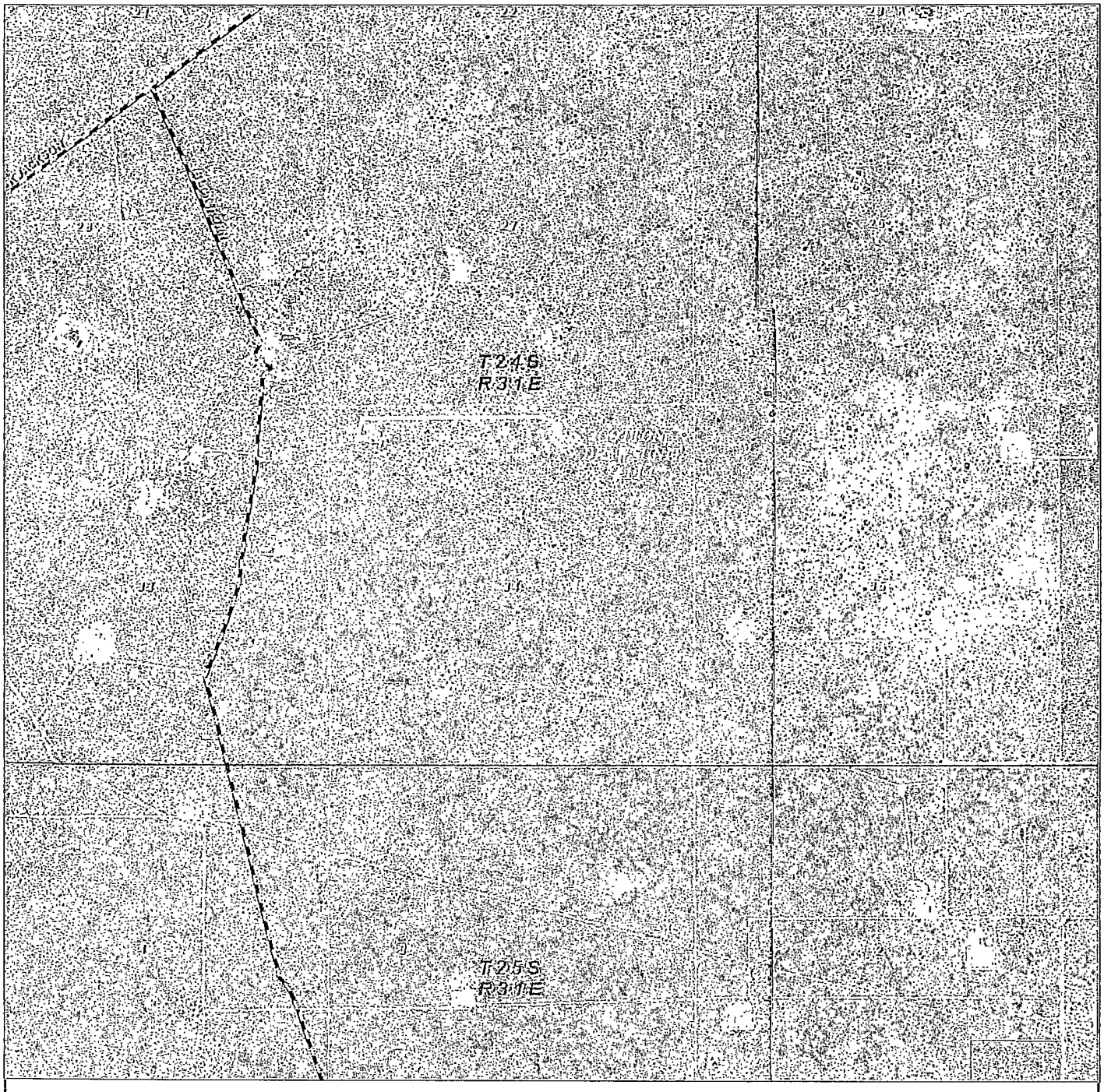
(575) 392-2206 – Fax
basinsurveys.com

W.O. Number:	JMS 21663
Survey Date:	08-31-2009
Scale:	1" = 2 Miles
Date:	09-01-2009

N

DEVON ENERGY PRODUCTION COMPANY, L.P.



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Scale: 1" = 2000'

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND

N

DEVON ENERGY PRODUCTION COMPANY, L.P.

Note: An 8-1/2" vertical pilot hole will be drilled to 9,700 ft TVD/TMD. The pilot hole cement plug details are included in the cementing program below.

Mud Program:

Depth	Mud Wt.	Visc.	Fluid Loss	Type System
0 – 900	8.4 – 9.0	30 – 34	N/C	FW
900 – 4,350	9.8 – 10.0	28 – 32	N/C	Brine
4,350 – 12,502	8.6 – 9.0	28 – 32	NC -12	FW

Pressure Control Equipment:

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

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

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Cementing Program

13-3/8" Surface

Lead: w/615 sx Cl C Cement + 2% bwoc Calcium Chloride + 0.125#/sx CF + 4% bwoc Bentonite + 81.4% FW, 13 5 ppg, **Yield:** 1.75 cf/sx **TOC @ surface.**
Tail w/ 250 sx Cl C Cement + 2% bwoc Calcium Chloride + 0.125#/sx CF + 56.3% FW, 14.8 ppg **Yield:** 1.35 cf/sx

9-5/8" Intermediate

Lead w/ 1,200 sx (35:65) Poz (Fly Ash):Cl C Cement + 5% bwow Sodium Chloride + 0.125#/sx CF + 6% bwoc Bentonite + 107.8% FW, 12.5 ppg **Yield**. 2.04 cf/sx **TOC @ surface**
Tail:w/300 sx 60:40 Poz (Fly Ash):Cl C + 5% bwow Sodium Chloride + 0.125#/sx CF + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Water, 13.8 ppg **Yield**: 1.38 cf/sx.

5-1/2" Production

1st Stage
Lead: 230 sx (35:65) Poz (Fly Ash)·Cl H Cement + 6% bwoc Bentonite + 0.5% bwoc FL-52A + 102% FW, 12.5 ppg **Yield**: 1.94 cf/sx
Tail w/ 1,300 sx (50:50) Poz (Fly Ash):Cl H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 2% bwoc Bentonite + 0.6% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 58.3% FW, 14.2 ppg **Yield**· 1.31 cf/sx

DV TOOL at ~6,500 ft

2nd Stage
Lead w/ 340 sx Cl C Cement + 0.125#/sx CF + 1% bwow Calcium Chloride + 157% FW, 11.4 ppg **Yield**: 2.89 cf/sx **TOC @ 3,850'**

Tail w/ 100 sx (60:40) Poz (Fly Ash).Cl C Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125#/sx CF + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 64% FW, 13.8 ppg **Yield**. 1.35 cf/sx

8-1/2" **Pilot Hole Plugs**

Plug 1: 80 sx Cl H Cement, 15.6 ppg, 1.18 cf/sx

Top of Plug:	9,500 ft
Bottom of Plug	9,700 ft

Plug 2: 280 sx Cls H Cement, 18.0 ppg, 0.89 cf/sx

Top of Plug:	7,250 ft
Bottom of Plug	7,750 ft

TOC for All Strings:

Surface:	0'
Intermediate:	0'
Production:	3,850'

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASEDON FLUID CALIPER AND OPENHOLE LOG CALIPER DATA.

Weatherford®

Drilling Services

Proposal

devon

COTTON DRAW UNIT #114H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

MARCH 17, 2010

Weatherford International, Ltd.
P.O. Box 61028
Midland, TX 79711 USA
+1.432.561.8892 Main
+1.432.561.8895 Fax
www.weatherford.com

devon

COTTON DRAW UNIT #114H
EDDY CO., NEW MEXICO

Rig H&P 214

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	179.90	0.00	0.00	0.00	0.00	0.00	0.00	
2	7632.05	0.00	179.90	7632.05	0.00	0.00	0.00	0.00	0.00	
3	8529.17	89.71	179.90	8205.00	-570.07	1.02	10.00	179.90	570.07	
4	12502.04	89.71	179.90	8225.00	-4542.89	8.16	0.00	0.00	4542.90	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Cotton Draw Unit #114H	0.00	0.00	429743.36	717627.47	32°10'48.563N	103°45'48.693W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8225.00	-4542.89	8.16	425200.47	717635.63	Point

FIELD DETAILS

Eddy Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

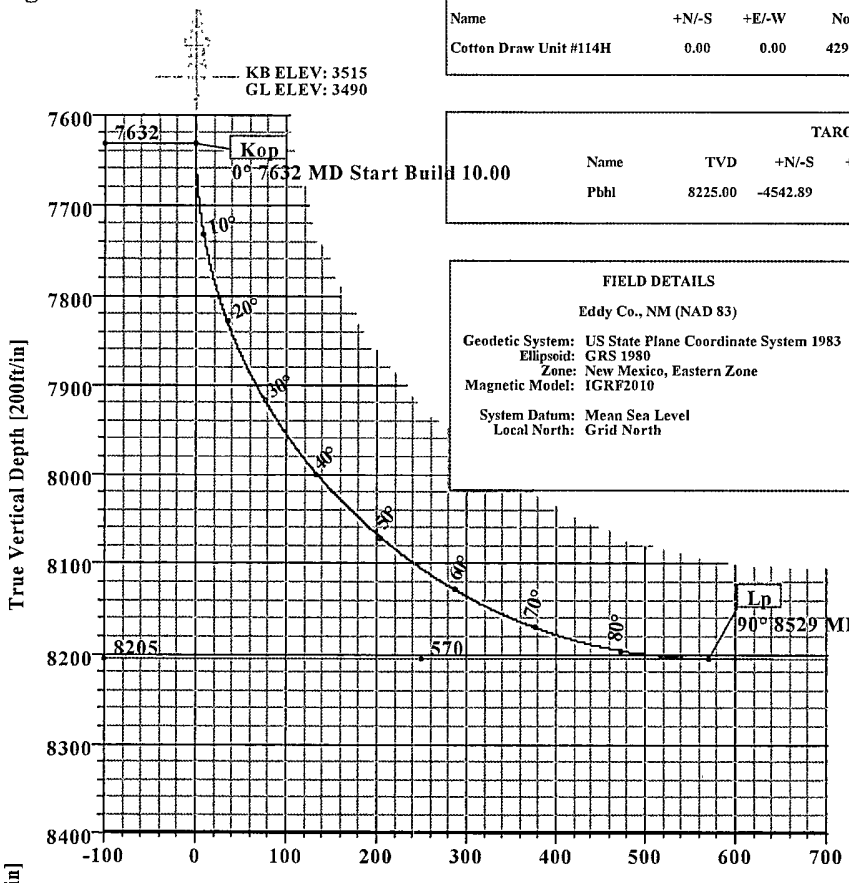
System Datum: Mean Sea Level
Local North: Grid North

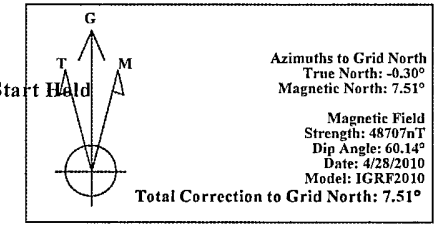
SITE DETAILS

Cotton Draw Unit #114H

Site Centre Northing: 429743.36
Easting: 717627.47

Ground Level: 3490.00
Positional Uncertainty: 0.00
Convergence: 0.30

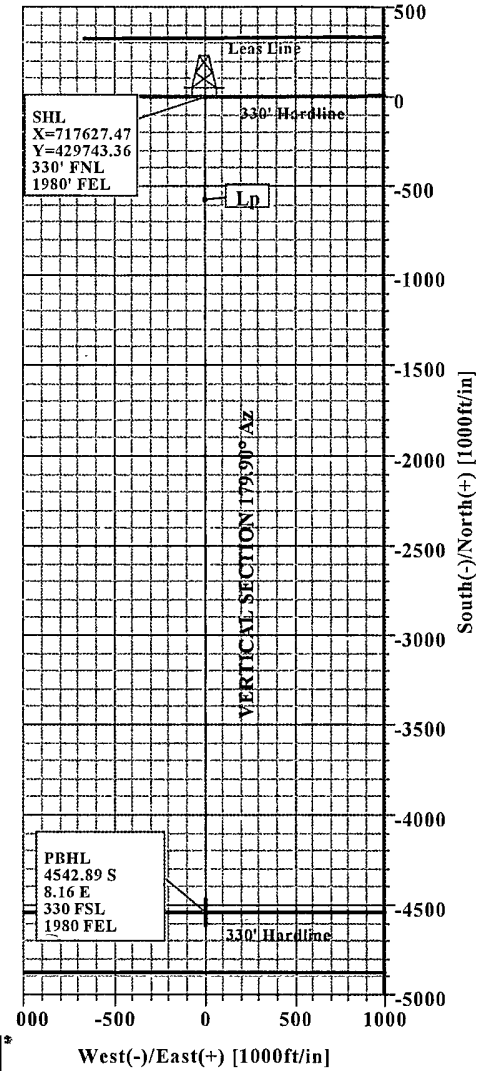


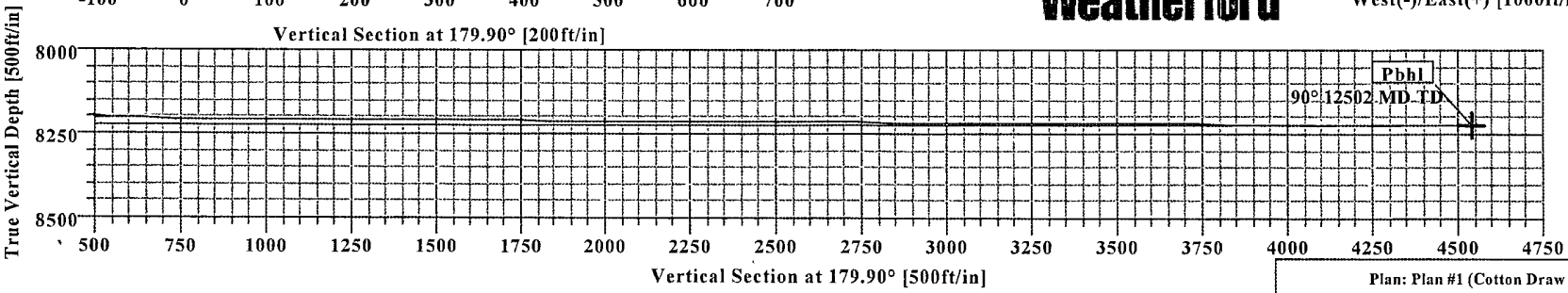


Azimuths to Grid North
True North: -0.30°
Magnetic North: 7.51°

Magnetic Field
Strength: 48707nT
Dip Angle: 60.14°
Date: 4/28/2010
Model: IGRF2010

Total Correction to Grid North: 7.51°





Weatherford®

Plan: Plan #1 (Cotton Draw Unit #114H/1)

Created By: Russell W Joyner Date: 3/17/2010

Weatherford International Ltd.

WFT Plan Report - Geographic

devon

Weatherford

Company:	Devon Energy	**Date:** 3/17/2010	**Time:** 10:10:43	**Page:**	1
Field:	Eddy Co., NM (NAD 83)	**Co-ordinate(NE) Reference:**	Well: Cotton Draw Unit #114H, Grid North		
Site:	Cotton Draw Unit #114H	**Vertical (TVD) Reference:**	SITE 3515.0		
Well:	Cotton Draw Unit #114H	**Section (VS) Reference:**	Well (0.00N,0.00E,179.90Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Field: Eddy Co., NM (NAD 83)

Map System:	US State Plane Coordinate System 1983	**Map Zone:**	New Mexico, Eastern Zone
Geo Datum:	GRS 1980	**Coordinate System:**	Well Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	IGRF2010

Site: Cotton Draw Unit #114H

Site Position:		**Northing:**	429743.36 ft	**Latitude:**	32 10 48.563 N
From:	Map	**Easting:**	717627.47 ft	**Longitude:**	103 45 48.693 W
Position Uncertainty:	0.00 ft			**North Reference:**	Grid
Ground Level:	3490.00 ft			**Grid Convergence:**	0.30 deg

Well: Cotton Draw Unit #114H **Slot Name:**

Well Position:	+N/-S	0.00 ft	**Northing:**	429743.36 ft	**Latitude:**	32 10 48.563 N
	+E/-W	0.00 ft	**Easting:**	717627.47 ft	**Longitude:**	103 45 48.693 W
Position Uncertainty:		0.00 ft				

Wellpath: 1 **Drilled From:** Surface

Tie-on Depth: 0.00 ft

Current Datum:	SITE	**Height**	3515.00 ft	**Above System Datum:**	Mean Sea Level
Magnetic Data:	4/28/2010			**Declination:**	7.81 deg
Field Strength:	48707 nT			**Mag Dip Angle:**	60.14 deg

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	8225.00	0.00	0.00	179.90

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	179.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7632.05	0.00	179.90	7632.05	0.00	0.00	0.00	0.00	0.00	0.00	
8529.17	89.71	179.90	8205.00	-570.07	1.02	10.00	10.00	0.00	179.90	
12502.04	89.71	179.90	8225.00	-4542.89	8.16	0.00	0.00	0.00	0.00	Pbhl

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
7632.05	0.00	179.90	7632.05	0.00	0.00	0.00	0.00	429743.36	717627.47	Kop
7732.05	10.00	179.90	7731.54	-8.70	0.02	8.70	10.00	429734.65	717627.48	
7832.05	20.00	179.90	7828.01	-34.55	0.06	34.55	10.00	429708.80	717627.53	
7932.05	30.00	179.90	7918.53	-76.76	0.14	76.76	10.00	429666.60	717627.60	
8032.05	40.00	179.90	8000.34	-134.05	0.24	134.05	10.00	429609.31	717627.71	
8132.05	50.00	179.90	8070.96	-204.67	0.37	204.67	10.00	429538 69	717627.83	
8232 05	60.00	179.90	8128.25	-286.48	0.51	286.48	10.00	429456.88	717627.98	
8332.05	70.00	179.90	8170.46	-376.99	0.68	376.99	10.00	429366.36	717628.14	
8432.05	80.00	179.90	8196.30	-473.46	0.85	473.46	10.00	429269.89	717628.32	
8529.17	89.71	179.90	8205.00	-570.07	1.02	570.07	10.00	429173.28	717628.49	Lp
8532.05	89.71	179.90	8205.02	-572.95	1.03	572.96	0.00	429170.40	717628.50	
8632.05	89.71	179.90	8205.52	-672.95	1.21	672.95	0.00	429070.40	717628.67	
8732.05	89.71	179.90	8206.02	-772.95	1.39	772.95	0.00	428970.40	717628.85	
8832.05	89.71	179.90	8206.53	-872.95	1.57	872.95	0.00	428870.41	717629.03	
8932.05	89.71	179.90	8207.03	-972.95	1.75	972.95	0.00	428770.41	717629.21	
9032.05	89.71	179.90	8207.53	-1072.95	1.93	1072.95	0.00	428670.41	717629.39	
9132.05	89.71	179.90	8208.04	-1172.95	2.11	1172.95	0.00	428570.41	717629.57	
9232.05	89.71	179.90	8208.54	-1272.94	2.29	1272.95	0.00	428470.41	717629.75	
9332.05	89.71	179.90	8209.04	-1372.94	2.47	1372.95	0.00	428370.41	717629.93	
9432.05	89.71	179.90	8209.55	-1472.94	2.65	1472.94	0.00	428270.41	717630.11	

Weatherford International Ltd.

WFT Plan Report - Geographic

Company:	Devon Energy	**Date:** 3/17/2010 **Time:** 10.10:43	**Page:** 2
Field:	Eddy Co., NM (NAD 83)	**Co-ordinate(NE) Reference:**	Well: Cotton Draw Unit #114H, Grid North
Site:	Cotton Draw Unit #114H	**Vertical (TVD) Reference:**	SITE 3515.0
Well:	Cotton Draw Unit #114H	**Section (VS) Reference:**	Well (0.00N,0.00E,179.90Azi)
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
9532.05	89.71	179.90	8210.05	-1572.94	2.83	1572.94	0.00	428170.42	717630.29	
9632.05	89.71	179.90	8210.55	-1672.94	3.00	1672.94	0.00	428070.42	717630.47	
9732.05	89.71	179.90	8211.06	-1772.94	3.18	1772.94	0.00	427970.42	717630.65	
9832.05	89.71	179.90	8211.56	-1872.94	3.36	1872.94	0.00	427870.42	717630.83	
9932.05	89.71	179.90	8212.06	-1972.93	3.54	1972.94	0.00	427770.42	717631.01	
10032.05	89.71	179.90	8212.57	-2072.93	3.72	2072.94	0.00	427670.42	717631.19	
10132.05	89.71	179.90	8213.07	-2172.93	3.90	2172.94	0.00	427570.42	717631.37	
10232.05	89.71	179.90	8213.57	-2272.93	4.08	2272.93	0.00	427470.43	717631.55	
10332.05	89.71	179.90	8214.08	-2372.93	4.26	2372.93	0.00	427370.43	717631.73	
10432.05	89.71	179.90	8214.58	-2472.93	4.44	2472.93	0.00	427270.43	717631.91	
10532.05	89.71	179.90	8215.08	-2572.93	4.62	2572.93	0.00	427170.43	717632.09	
10632.05	89.71	179.90	8215.59	-2672.92	4.80	2672.93	0.00	427070.43	717632.27	
10732.05	89.71	179.90	8216.09	-2772.92	4.98	2772.93	0.00	426970.43	717632.45	
10832.05	89.71	179.90	8216.59	-2872.92	5.16	2872.93	0.00	426870.43	717632.63	
10932.05	89.71	179.90	8217.10	-2972.92	5.34	2972.93	0.00	426770.44	717632.81	
11032.05	89.71	179.90	8217.60	-3072.92	5.52	3072.92	0.00	426670.44	717632.99	
11132.05	89.71	179.90	8218.10	-3172.92	5.70	3172.92	0.00	426570.44	717633.17	
11232.05	89.71	179.90	8218.61	-3272.92	5.88	3272.92	0.00	426470.44	717633.34	
11332.05	89.71	179.90	8219.11	-3372.91	6.06	3372.92	0.00	426370.44	717633.52	
11432.05	89.71	179.90	8219.61	-3472.91	6.24	3472.92	0.00	426270.44	717633.70	
11532.05	89.71	179.90	8220.12	-3572.91	6.42	3572.92	0.00	426170.44	717633.88	
11632.05	89.71	179.90	8220.62	-3672.91	6.60	3672.92	0.00	426070.45	717634.06	
11732.05	89.71	179.90	8221.12	-3772.91	6.78	3772.92	0.00	425970.45	717634.24	
11832.05	89.71	179.90	8221.63	-3872.91	6.96	3872.91	0.00	425870.45	717634.42	
11932.05	89.71	179.90	8222.13	-3972.91	7.14	3972.91	0.00	425770.45	717634.60	
12032.05	89.71	179.90	8222.63	-4072.90	7.32	4072.91	0.00	425670.45	717634.78	
12132.05	89.71	179.90	8223.14	-4172.90	7.50	4172.91	0.00	425570.45	717634.96	
12232.05	89.71	179.90	8223.64	-4272.90	7.68	4272.91	0.00	425470.45	717635.14	
12332.05	89.71	179.90	8224.14	-4372.90	7.85	4372.91	0.00	425370.46	717635.32	
12432.05	89.71	179.90	8224.65	-4472.90	8.03	4472.91	0.00	425270.46	717635.50	
12502.04	89.71	179.90	8225.00	-4542.89	8.16	4542.90	0.00	425200.47	717635.63	Pbhl

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----> Deg	Min	Sec	<---- Longitude ----> Deg	Min	Sec
Pbhl			8225.00	-4542.89	8.16	425200.47	717635.63	32	10	3.608 N	103	45	48.878 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7632.05	7632.05	Kop
8529.17	8205.00	Lp
12502.03	8225.00	Pbhl

Weatherford International Ltd.

WFT Plan Report - Geographic

Company:	Devon Energy	**Date:** 3/17/2010	**Time:** 10:10:43	**Page:**	3
Field:	Eddy Co., NM (NAD 83)	**Co-ordinate(NE) Reference:**	Well: Cotton Draw Unit #114H, Grid North		
Site:	Cotton Draw Unit #114H	**Vertical (TVD) Reference:**	SITE 3515.0		
Well:	Cotton Draw Unit #114H	**Section (VS) Reference:**	Well (0.00N,0.00E,179.90Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

Weatherford®

Weatherford Drilling Services

GeoDec v5.03

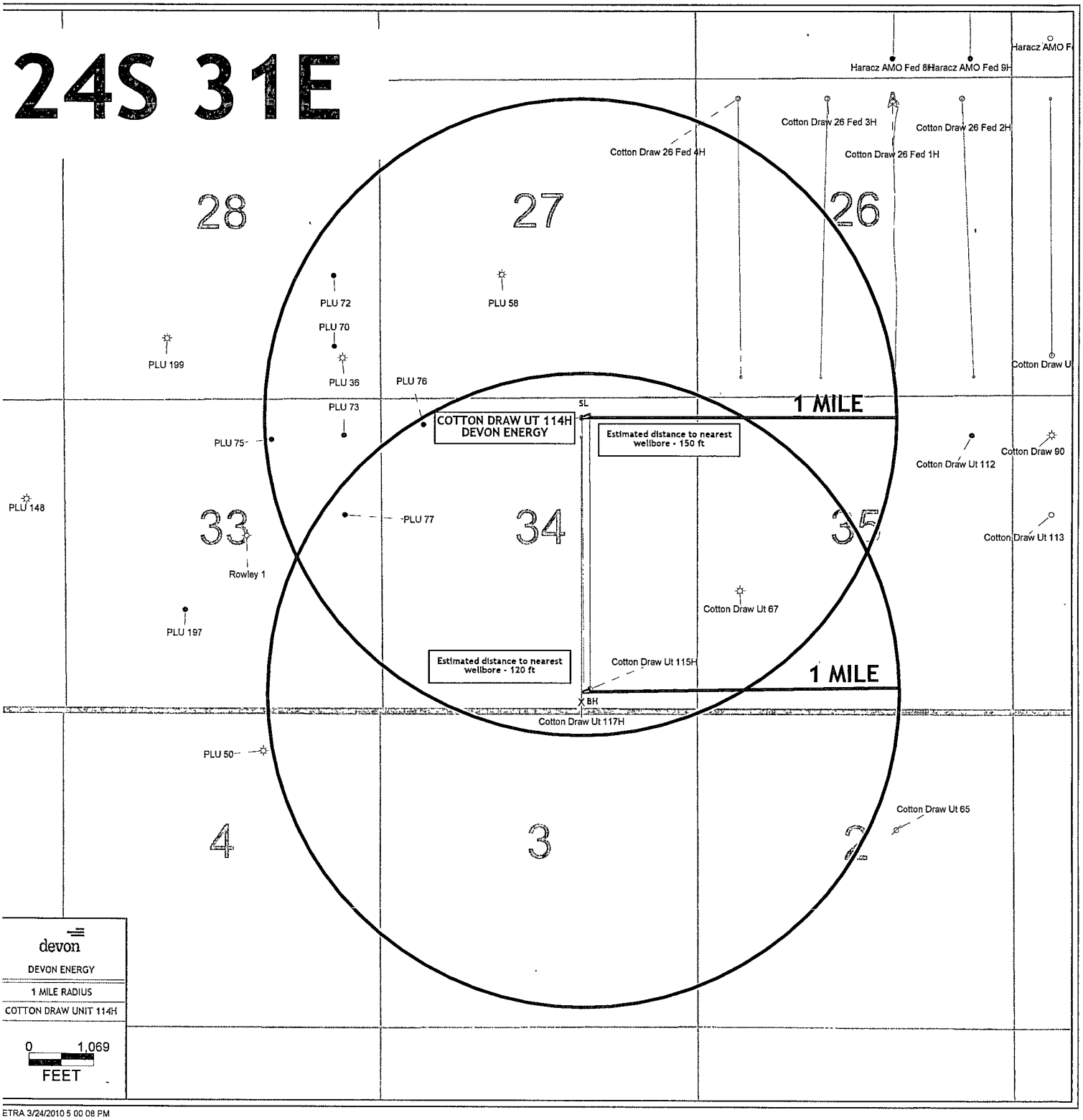
Report Date:	March 17, 2010
Job Number:	
Customer:	Devon Energy
Well Name:	Cotton Draw Unit #114H
API Number:	
Rig Name:	
Location:	Eddy Co, NM
Block:	
Engineer:	R Joyner

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 429743.360 USFT	Latitude 32.1801588 DEG
East/West 717627.470 USFT	Longitude -103.7635212 DEG
Grid Convergence: .30°	
Total Correction: +7.51°	

Geodetic Location WGS84	Elevation = 0.0 Meters	
Latitude =	32.18016° N	32° 10 min 48.572 sec
Longitude =	103.76352° W	103° 45 min 48.676 sec

Magnetic Declination =	7.81°	[True North Offset]	
Local Gravity =	.9988 g	CheckSum =	6523
Local Field Strength =	48703 nT	Magnetic Vector X =	24023 nT
Magnetic Dip =	60.14°	Magnetic Vector Y =	3295 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42238 nT
Spud Date =	Apr 28, 2010	Magnetic Vector H =	24248 nT

Signed:_____ Date:_____



ETRA 3/24/2010 5 00 08 PM

Devon Energy Production Co., LP
NM-037410 – Cotton Draw Unit #114
API: 30-015-37410
Eddy County, New Mexico

RE: Casing Change – Conditions of Approval

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible brine/water flows in the Salado, Castile, Delaware and Bone Spring formations.
Possible lost circulation in the Delaware and Bone Spring formations.

1. The **13-3/8** inch surface casing shall be set at **approximately 900 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt)** and cemented to the surface. **Fresh water mud to be used to setting depth.**

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

    b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

    ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Casing to be set in the Fletcher Anhydrite or Lamar Limestone.**

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and minimum of one every other joint.

Pilot hole will be plugged back as stated in sundry. Bottom Plug must be tagged. WOC and tag at 9500' or shallower.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

    a. First stage to DV tool, cement shall:

    ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job.

    b. Second stage above DV tool, cement shall:

    ☒ Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

DHW 033110