Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

OCD Hobbs

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 - Other instructions on reverse side.

5. Lease Serial No.
NMNM113964

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

HOBBS OCD

8. Well Name and No.
PAINT 33 FED 1H

2. Name of Operator
DEVON ENERGY PRODUCTION CO LP

Contact: TRINA C COUCH
EMail: trina.couch@dvn.com

9. API Well No.
30-025-42516-00-X1

3a. Address
333 WEST SHERIDAN AVE
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)
Ph: 405-228-7203

AUG 1 2015

10. Field and Pool, or Exploratory
WC-025 G06 S253206M

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 33 T24S R32E SWSW 200FSL 1315FWL

RECEIVED

11. County or Parish, and State
LEA COUNTY, NM

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

TYPE OF 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 Change to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 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 requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Devon Energy Production Company, L.P. respectfully requests to change the intermediate and production casing strings and also to change the wellhead to a conventional wellhead.

Attached is the following:
Drilling Plan
Directional Survey

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #299525 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO LP, sent to the Hobbs
Committed to AFMSS for processing by CHRISTOPHER WALLS on 04/29/2015 (15CRW0061SE)

Name *(Printed/Typed)* TRINA C COUCH — Title REGULATORY ANALYST

Signature (Electronic Submission) — Date 04/27/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED — CHARLES NIMMER — Title PETROLEUM ENGINEER — Date 08/20/2015

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 Hobbs

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

AUG 31 2015

Devon Energy, Paint 33 Fed 1H

1. Geologic Formations

TVD of target	10,762'	Pilot hole depth	N/A
MD at TD:	15,492'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	965		
Top of Salt	1125		
Base of Salt	4490		
Lamar	4520		
Bell Canyon	4690		
Cherry Canyon	5420		
Brushy Canyon	7100		
Bone Spring	8530		
1st BSPG Sand	9630		
2nd BSPG Lime	9850		
2nd BSPG Sand	10250		
Wolfcamp	11750		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Hole Size	Casing Interval From	To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17.5"	0	875'	13.375"	48	H-40	STC	1.97	4.42	12.88
12.25"	0	4,300'	9.625"	40	J-55	BTC	1.15	1.77	3.02
12.25	4,300'	4,550'	9.625"	40	HCK-55	BTC	1.79	1.67	5.09
8.75"	0	15,492'	5.5"	17	P-110	BTC	1.42	2.02	2.98
				BLM Minimum Safety Factor			1.125	1.00	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	H_2O gal/sk	Yld ft3/ sack	500# Comp. Strength (hours)	Slurry Description
Inter.	970	12.9	9.81	1.85	17	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5.5" Prod. Two Stage	730	11.9	12.89	2.31	n/a	1st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
	1380	14.5	5.31	1.2	25	1st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
	DV Tool = 5000'					
	90	11	14.81	2.55	22	2nd Stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	50	14.8	6.32	1.33	6	2nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Intermediate	0'	75%
5.5" Production Two Stage	1st Stage = 5000' / 2nd Stage = 4050'	25%

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	x	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other*		
8-3/4"	13-5/8"	3M	Annular	x	50% testing pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other *		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other *		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke

	Manifold. See attached for specs and hydrostatic test chart.	
	N	Are anchors required by manufacturer?
N	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.	

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	875'	FW Gel	8.6-8.8	28-34	N/C
875'	4,550'	Saturated Brine	10.0-10.2	28-34	N/C
4,550'	15,492'	Cut Brine	8.5-9.3	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing.	
x	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4762 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

Is this a walking operation? No.
Will be pre-setting casing? No.

Attachments
_x_ Directional Plan
___ Other, describe

5D Plan Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Paint 33 Fed 1H*
Well Name: *Paint 33 Fed 1H*
Plan: *P1:V3*

22 April 2015

Paint 33 Fed 1H

Field Name
Lea Co, NM Nad 83 NMEZ

Map Units : US ft **Company Name :** Devon Energy
Vertical Reference Datum (VRD) : Mean Sea Level
Projected Coordinate System : NAD83 / New Mexico East (ftUS)
Comment :

Site Name
Paint 33 Fed 1H

Units : US ft **North Reference** : Grid **Convergence Angle :** 0.35
Position **Northing :** 425187.62 US ft **Latitude :** 32° 10' 2.11"
Easting : 742297.32 US ft **Longitude :** -103° 41' 1.95"
Elevation above Mean Sea Level: 3490.00 US ft
Comment :

Slot Name
Paint 33 Fed 1H

Position (Offsets relative to Site Centre)
+N / -S : 0.00 US ft **Northing :** 425187.62 US ft **Latitude :** 32°10'2.11"
+E / -W : 0.00 US ft **Easting :** 742297.32 US ft **Longitude :** -103°41'1.95"
Slot TVD Reference : Ground Elevation
Elevation above Mean Sea Level : 3490.00 US ft
Comment :

Well Name
Paint 33 Fed 1H

Type : Main well **UWI :** **Plan :** P1:V3
Rig Height *Kelly Bushing* : 27.00 US ft **Comment :**
Relative to Mean Sea Level: 3517.00 US ft
Closure Distance : 4797.15 US ft **Closure Azimuth :** 351.71°
Vertical Section (Position of Origin Relative to Slot)
+N / -S : 0.00 US ft **+E / -W :** 0.00 US ft **Az :** 351.71°
Magnetic Parameters
Model : BGGM **Field Strength :** 48137.4nT **Dec :** 7.32° **Dip :** 60.01° **Date :** 15/Jun/2015

Target Set

Name : Paint 33 Fed 1H **Number of Targets :** 2

Comment :

Target Name:
S Tgt

Position (Relative to Slot centre)
+N / -S : -156.83US ft **Northing :** 425030.79 US ft **Latitude :** 32°10'0.60"
+E / -W : -691.93 US ft **Easting :** 741605.39US ft **Longitude :** -103°41'10.01"
TVD (Kelly Bushing) : 10241.13 US ft

Shape:
Cuboid

Orientation **Azimuth :** 0.00° **Inclination :** 0.00°
Dimensions **Length :** 20.00 US ft **Breadth :** 20.00 US ft **Height :** 20.00 US ft

5D Plan Report

Target Name:	Position (Relative to Slot centre)		
PBHL 1H	+N / -S : 4747.03US ft	Northing : 429934.65 US ft	Latitude : 32°10'49.12"
	+E / -W : -691.66 US ft	Easting : 741605.66US ft	Longitude : -103°41'9.67"
Shape:	TVD (Kelly Bushing) : 10762.00 US ft		
Cuboid	Orientation Azimuth : 0.00°	Inclination : 0.00°	
	Dimensions Length : 8644.00 US ft	Breadth : 50.00 US ft	Height : 20.00 US ft

Casing Points (Relative to Slot centre, TVD relative to Kelly Bushing)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Name
4550.00	0.00	0.00	4550.00	0.00	0.00	425187.62	742297.32	9 5/8 in

Well path created using minimum curvature.

Salient Points (Relative to Slot centre, TVD relative to Kelly Bushing)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	B.Rate (°/100 US ft)	T.Rate (°/100 US ft)	T.Face (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4550.00	0.00	0.00	4550.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9 5/8 in
4650.00	0.00	0.00	4650.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nudge
5211.98	8.43	257.23	5209.96	-9.12	-40.25	-3.22	1.50	1.50	0.00	257.23	Hold
9347.90	8.43	257.23	9301.19	-143.15	-631.56	-50.59	0.00	0.00	0.00	0.00	Drop
10190.88	0.00	0.00	10141.13	-156.83	-691.93	-55.43	1.00	-1.00	0.00	180.00	Hold
10290.88	0.00	0.00	10241.13	-156.83	-691.93	-55.43	0.00	0.00	0.00	0.00	KOP
11109.06	90.00	0.00	10762.00	364.04	-691.90	460.00	11.00	11.00	0.00	0.00	LP
15492.05	90.00	0.00	10762.00	4747.03	-691.66	4797.15	0.00	0.00	0.00	0.00	PBHL 1H

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	425187.62	742297.32	
4550.00	0.00	0.00	4550.00	0.00	0.00	0.00	0.00	425187.62	742297.32	9 5/8 in
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	425187.62	742297.32	
4650.00	0.00	0.00	4650.00	0.00	0.00	0.00	0.00	425187.62	742297.32	Nudge
4700.00	0.75	257.23	4700.00	-0.07	-0.32	-0.03	1.50	425187.55	742297.00	
4800.00	2.25	257.23	4799.96	-0.65	-2.87	-0.23	1.50	425186.97	742294.45	
4900.00	3.75	257.23	4899.82	-1.81	-7.98	-0.64	1.50	425185.81	742289.34	
5000.00	5.25	257.23	4999.51	-3.54	-15.63	-1.25	1.50	425184.08	742281.69	
5100.00	6.75	257.23	5098.96	-5.85	-25.82	-2.07	1.50	425181.77	742271.50	
5200.00	8.25	257.23	5198.10	-8.74	-38.55	-3.09	1.50	425178.88	742258.77	
5211.98	8.43	257.23	5209.96	-9.12	-40.25	-3.22	1.50	425178.50	742257.07	Hold
5300.00	8.43	257.23	5297.02	-11.97	-52.83	-4.23	0.00	425175.65	742244.49	
5400.00	8.43	257.23	5395.94	-15.21	-67.13	-5.38	0.00	425172.41	742230.19	
5500.00	8.43	257.23	5494.86	-18.46	-81.42	-6.52	0.00	425169.16	742215.90	
5600.00	8.43	257.23	5593.78	-21.70	-95.72	-7.67	0.00	425165.92	742201.60	
5700.00	8.43	257.23	5692.70	-24.94	-110.02	-8.81	0.00	425162.68	742187.30	
5800.00	8.43	257.23	5791.62	-28.18	-124.32	-9.96	0.00	425159.44	742173.00	
5900.00	8.43	257.23	5890.54	-31.42	-138.61	-11.10	0.00	425156.20	742158.71	
6000.00	8.43	257.23	5989.46	-34.66	-152.91	-12.25	0.00	425152.96	742144.41	
6100.00	8.43	257.23	6088.38	-37.90	-167.21	-13.39	0.00	425149.72	742130.11	
6200.00	8.43	257.23	6187.30	-41.14	-181.50	-14.54	0.00	425146.48	742115.82	
6300.00	8.43	257.23	6286.22	-44.38	-195.80	-15.68	0.00	425143.24	742101.52	
6400.00	8.43	257.23	6385.14	-47.62	-210.10	-16.83	0.00	425140.00	742087.22	
6500.00	8.43	257.23	6484.06	-50.86	-224.39	-17.97	0.00	425136.76	742072.93	
6600.00	8.43	257.23	6582.98	-54.10	-238.69	-19.12	0.00	425133.52	742058.63	
6700.00	8.43	257.23	6681.90	-57.34	-252.99	-20.27	0.00	425130.28	742044.33	

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
6800.00	8.43	257.23	6780.82	-60.58	-267.29	-21.41	0.00	425127.04	742030.03	
6900.00	8.43	257.23	6879.74	-63.82	-281.58	-22.56	0.00	425123.80	742015.74	
7000.00	8.43	257.23	6978.66	-67.06	-295.88	-23.70	0.00	425120.56	742001.44	
7100.00	8.43	257.23	7077.58	-70.30	-310.18	-24.85	0.00	425117.32	741987.14	
7200.00	8.43	257.23	7176.50	-73.54	-324.47	-25.99	0.00	425114.08	741972.85	
7300.00	8.43	257.23	7275.42	-76.78	-338.77	-27.14	0.00	425110.84	741958.55	
7400.00	8.43	257.23	7374.34	-80.02	-353.07	-28.28	0.00	425107.60	741944.25	
7500.00	8.43	257.23	7473.26	-83.27	-367.37	-29.43	0.00	425104.35	741929.95	
7600.00	8.43	257.23	7572.18	-86.51	-381.66	-30.57	0.00	425101.11	741915.66	
7700.00	8.43	257.23	7671.09	-89.75	-395.96	-31.72	0.00	425097.87	741901.36	
7800.00	8.43	257.23	7770.01	-92.99	-410.26	-32.86	0.00	425094.63	741887.06	
7900.00	8.43	257.23	7868.93	-96.23	-424.55	-34.01	0.00	425091.39	741872.77	
8000.00	8.43	257.23	7967.85	-99.47	-438.85	-35.15	0.00	425088.15	741858.47	
8100.00	8.43	257.23	8066.77	-102.71	-453.15	-36.30	0.00	425084.91	741844.17	
8200.00	8.43	257.23	8165.69	-105.95	-467.44	-37.44	0.00	425081.67	741829.88	
8300.00	8.43	257.23	8264.61	-109.19	-481.74	-38.59	0.00	425078.43	741815.58	
8400.00	8.43	257.23	8363.53	-112.43	-496.04	-39.73	0.00	425075.19	741801.28	
8500.00	8.43	257.23	8462.45	-115.67	-510.34	-40.88	0.00	425071.95	741786.98	
8600.00	8.43	257.23	8561.37	-118.91	-524.63	-42.03	0.00	425068.71	741772.69	
8700.00	8.43	257.23	8660.29	-122.15	-538.93	-43.17	0.00	425065.47	741758.39	
8800.00	8.43	257.23	8759.21	-125.39	-553.23	-44.32	0.00	425062.23	741744.09	
8900.00	8.43	257.23	8858.13	-128.63	-567.52	-45.46	0.00	425058.99	741729.80	
9000.00	8.43	257.23	8957.05	-131.87	-581.82	-46.61	0.00	425055.75	741715.50	
9100.00	8.43	257.23	9055.97	-135.11	-596.12	-47.75	0.00	425052.51	741701.20	
9200.00	8.43	257.23	9154.89	-138.35	-610.42	-48.90	0.00	425049.27	741686.90	
9300.00	8.43	257.23	9253.81	-141.59	-624.71	-50.04	0.00	425046.03	741672.61	
9347.90	8.43	257.23	9301.19	-143.15	-631.56	-50.59	0.00	425044.47	741665.76	Drop
9400.00	7.91	257.23	9352.76	-144.78	-638.78	-51.17	1.00	425042.84	741658.54	
9500.00	6.91	257.23	9451.93	-147.63	-651.36	-52.18	1.00	425039.99	741645.96	
9600.00	5.91	257.23	9551.30	-150.10	-662.24	-53.05	1.00	425037.52	741635.08	
9700.00	4.91	257.23	9650.85	-152.18	-671.44	-53.78	1.00	425035.44	741625.88	
9800.00	3.91	257.23	9750.56	-153.88	-678.93	-54.39	1.00	425033.74	741618.39	
9900.00	2.91	257.23	9850.38	-155.20	-684.73	-54.85	1.00	425032.42	741612.59	
10000.00	1.91	257.23	9950.29	-156.13	-688.83	-55.18	1.00	425031.49	741608.49	
10100.00	0.91	257.23	10050.26	-156.67	-691.23	-55.37	1.00	425030.95	741606.09	
10190.88	0.00	0.00	10141.13	-156.83	-691.93	-55.43	1.00	425030.79	741605.39	Hold
10200.00	0.00	0.00	10150.25	-156.83	-691.93	-55.43	0.00	425030.79	741605.39	
10290.88	0.00	0.00	10241.13	-156.83	-691.93	-55.43	0.00	425030.79	741605.39	KOP
10300.00	1.00	0.00	10250.25	-156.75	-691.93	-55.35	11.00	425030.87	741605.39	
10400.00	12.00	0.00	10349.46	-145.44	-691.93	-44.16	11.00	425042.18	741605.39	
10500.00	23.00	0.00	10444.68	-115.41	-691.93	-14.44	11.00	425072.21	741605.39	
10600.00	34.00	0.00	10532.42	-67.76	-691.93	32.71	11.00	425119.86	741605.39	
10700.00	45.00	0.00	10609.46	-4.25	-691.92	95.56	11.00	425183.37	741605.40	
10800.00	56.00	0.00	10672.97	72.80	-691.92	171.80	11.00	425260.42	741605.40	
10900.00	67.00	0.00	10720.61	160.55	-691.91	258.64	11.00	425348.17	741605.41	
11000.00	78.00	0.00	10750.63	255.78	-691.91	352.87	11.00	425443.40	741605.41	
11100.00	89.00	0.00	10761.92	354.98	-691.90	451.03	11.00	425542.60	741605.42	
11109.06	90.00	0.00	10762.00	364.04	-691.90	460.00	11.00	425551.66	741605.42	LP
11200.00	90.00	0.00	10762.00	454.98	-691.90	549.99	0.00	425642.60	741605.42	
11300.00	90.00	0.00	10762.00	554.98	-691.89	648.94	0.00	425742.60	741605.43	
11400.00	90.00	0.00	10762.00	654.98	-691.89	747.90	0.00	425842.60	741605.43	
11500.00	90.00	0.00	10762.00	754.98	-691.88	846.85	0.00	425942.60	741605.44	
11600.00	90.00	0.00	10762.00	854.98	-691.87	945.81	0.00	426042.60	741605.45	
11700.00	90.00	0.00	10762.00	954.98	-691.87	1044.76	0.00	426142.60	741605.45	
11800.00	90.00	0.00	10762.00	1054.98	-691.86	1143.71	0.00	426242.60	741605.46	
11900.00	90.00	0.00	10762.00	1154.98	-691.86	1242.67	0.00	426342.60	741605.46	
12000.00	90.00	0.00	10762.00	1254.98	-691.85	1341.62	0.00	426442.60	741605.47	
12100.00	90.00	0.00	10762.00	1354.98	-691.85	1440.58	0.00	426542.60	741605.47	
12200.00	90.00	0.00	10762.00	1454.98	-691.84	1539.53	0.00	426642.60	741605.48	

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
12300.00	90.00	0.00	10762.00	1554.98	-691.84	1638.49	0.00	426742.60	741605.48	
12400.00	90.00	0.00	10762.00	1654.98	-691.83	1737.44	0.00	426842.60	741605.49	
12500.00	90.00	0.00	10762.00	1754.98	-691.82	1836.39	0.00	426942.60	741605.50	
12600.00	90.00	0.00	10762.00	1854.98	-691.82	1935.35	0.00	427042.60	741605.50	
12700.00	90.00	0.00	10762.00	1954.98	-691.81	2034.30	0.00	427142.60	741605.51	
12800.00	90.00	0.00	10762.00	2054.98	-691.81	2133.26	0.00	427242.60	741605.51	
12900.00	90.00	0.00	10762.00	2154.98	-691.80	2232.21	0.00	427342.60	741605.52	
13000.00	90.00	0.00	10762.00	2254.98	-691.80	2331.17	0.00	427442.60	741605.52	
13100.00	90.00	0.00	10762.00	2354.98	-691.79	2430.12	0.00	427542.60	741605.53	
13200.00	90.00	0.00	10762.00	2454.98	-691.79	2529.07	0.00	427642.60	741605.53	
13300.00	90.00	0.00	10762.00	2554.98	-691.78	2628.03	0.00	427742.60	741605.54	
13400.00	90.00	0.00	10762.00	2654.98	-691.78	2726.98	0.00	427842.60	741605.54	
13500.00	90.00	0.00	10762.00	2754.98	-691.77	2825.94	0.00	427942.60	741605.55	
13600.00	90.00	0.00	10762.00	2854.98	-691.76	2924.89	0.00	428042.60	741605.56	
13700.00	90.00	0.00	10762.00	2954.98	-691.76	3023.85	0.00	428142.60	741605.56	
13800.00	90.00	0.00	10762.00	3054.98	-691.75	3122.80	0.00	428242.60	741605.57	
13900.00	90.00	0.00	10762.00	3154.98	-691.75	3221.76	0.00	428342.60	741605.57	
14000.00	90.00	0.00	10762.00	3254.98	-691.74	3320.71	0.00	428442.60	741605.58	
14100.00	90.00	0.00	10762.00	3354.98	-691.74	3419.66	0.00	428542.60	741605.58	
14200.00	90.00	0.00	10762.00	3454.98	-691.73	3518.62	0.00	428642.60	741605.59	
14300.00	90.00	0.00	10762.00	3554.98	-691.73	3617.57	0.00	428742.60	741605.59	
14400.00	90.00	0.00	10762.00	3654.98	-691.72	3716.53	0.00	428842.60	741605.60	
14500.00	90.00	0.00	10762.00	3754.98	-691.71	3815.48	0.00	428942.60	741605.61	
14600.00	90.00	0.00	10762.00	3854.98	-691.71	3914.44	0.00	429042.60	741605.61	
14700.00	90.00	0.00	10762.00	3954.98	-691.70	4013.39	0.00	429142.60	741605.62	
14800.00	90.00	0.00	10762.00	4054.98	-691.70	4112.34	0.00	429242.60	741605.62	
14900.00	90.00	0.00	10762.00	4154.98	-691.69	4211.30	0.00	429342.60	741605.63	
15000.00	90.00	0.00	10762.00	4254.98	-691.69	4310.25	0.00	429442.60	741605.63	
15100.00	90.00	0.00	10762.00	4354.98	-691.68	4409.21	0.00	429542.60	741605.64	
15200.00	90.00	0.00	10762.00	4454.98	-691.68	4508.16	0.00	429642.60	741605.64	
15300.00	90.00	0.00	10762.00	4554.98	-691.67	4607.12	0.00	429742.60	741605.65	
15400.00	90.00	0.00	10762.00	4654.98	-691.67	4706.07	0.00	429842.60	741605.65	
15492.05	90.00	0.00	10762.00	4747.03	-691.66	4797.15	0.00	429934.65	741605.66	PBHL 1H

devon

Paint 33 Fed 1H
Lea Co, NM

Weatherford®

Plan Data for Paint 33 Fed 1H

Plan Point Information:
Dogleg Severity Unit: °/100.00ft Position offsets from Slot centre

MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Northing (USft)	Easting (USft)	VSec (USft)	DLS (DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	425187.62	742297.32	0.00	0.00
4650.00	0.00	0.00	4650.00	0.00	0.00	425187.62	742297.32	0.00	0.00
5211.98	8.43	257.23	5209.96	-9.12	-40.25	425178.50	742257.07	-3.22	1.50
9347.90	8.43	257.23	9301.19	-143.15	-631.56	425044.47	741665.76	-50.59	0.00
10190.88	0.00	0.00	10141.13	-156.83	-691.93	425030.79	741605.39	-55.43	1.00
10290.88	0.00	0.00	10241.13	-156.83	-691.93	425030.79	741605.39	-55.43	0.00
11109.06	90.00	0.00	10762.00	364.04	-691.90	425551.66	741605.42	460.00	11.00
15492.05	90.00	0.00	10762.00	4747.03	-691.66	429934.65	741605.66	4797.15	0.00

Plan Data for Paint 33 Fed 1H

Slot: Paint 33 Fed 1H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 425187.62USft Latitude: 32°10'2.1"
+E/-W: 0.00USft Easting: 742297.32USft Longitude: -103°41'2.0"
Elevation Above VRD: 3490.00USft

Plan Data for Paint 33 Fed 1H

Target Set Information:
Name: Paint 33 Fed 1H
Position offsets from Slot centre

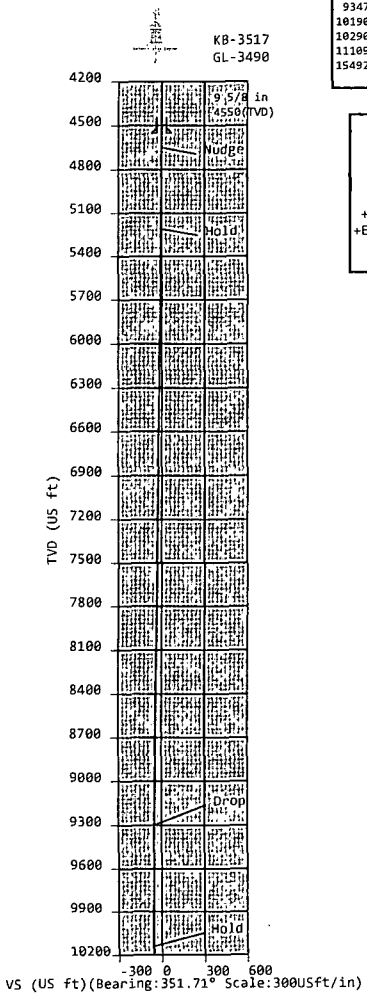
Name	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Northing (USft)	Easting (USft)	Shape	Comment
S Tgt	10241.13	-156.83	-691.93	425030.79	741605.39	Cuboid	
PBHL 1H	10762.00	4747.03	-691.66	429934.65	741605.66	Cuboid	

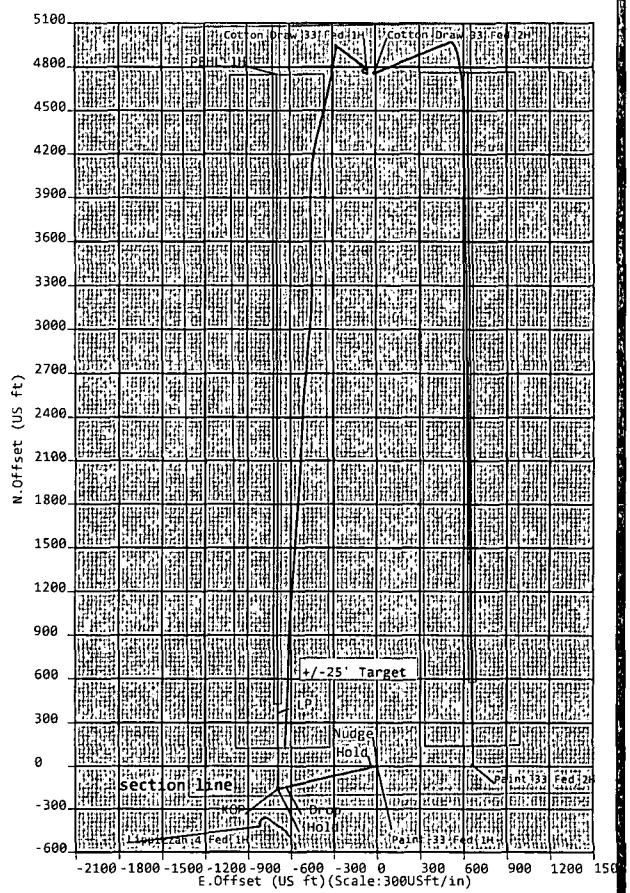
Plan Data for Paint 33 Fed 1H

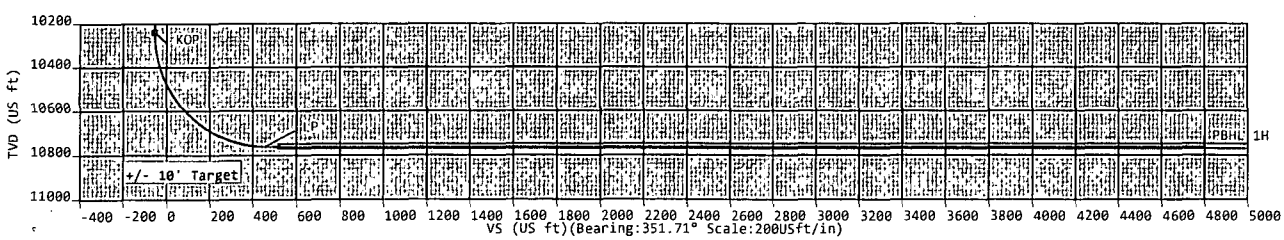
Well: Paint 33 Fed 1H
Type: Main-Well
File Number:
Plan Folder: P1 Plan: P1:V3
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 351.71°
+E/-W: 0.00USft
Magnetic Parameters:

Model:	Field Strength:	Declination:	Dip:	Date:
BGGM	48137(nT)	7.32°	60.01°	2015-06-15

- Paint 33 Fed 1H
- Cotton Draw 33 Fed 2H
- Cotton Draw 33 Fed 1H
- Paint 33 Fed 2H
- Lippizzan 4 Fed 1H







Sign Off: Russell Joyner

5D Anti-Collision Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Paint 33 Fed 1H*
Well Name: *Paint 33 Fed 1H*

25 April 2015

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Paint 33 Fed 1H

Field Name
Lea Co, NM Nad 83 NMEZ

Map Units : US ft
Company Name : Devon Energy
Vertical Reference Datum (VRD) : Mean Sea Level
Projected Coordinate System : NAD83 / New Mexico East (ftUS)
Comment :

Site Name
Paint 33 Fed 1H

Units : US ft
North Reference : Grid
Convergence Angle : 0.35

Position		
	Northing : 425187.62 US ft	**Latitude :** 32° 10' 2.11"
	Easting : 742297.32 US ft	**Longitude :** -103° 41' 1.95"

Elevation above Mean Sea Level: 3490.00 US ft
Comment :

Slot Name
Paint 33 Fed 1H

Position (Offsets relative to Site Centre)		
+N / -S : 0.00 US ft	**Northing :** 425187.62 US ft	**Latitude :** 32° 10' 2.11"
+E / -W : 0.00 US ft	**Easting :** 742297.32 US ft	**Longitude :** -103° 41' 1.95"

Slot TVD Reference : Ground Elevation
Elevation above Mean Sea Level : 3490.00 US ft
Comment :

Well Name
Paint 33 Fed 1H

Type : Main well
UWI :
Plan : Working Plan
Rig Height *Kelly Bushing* : 27.00 US ft
Relative to Mean Sea Level: 3517.00 US ft
Comment :
Closure Distance : 4797.15 US ft
Closure Azimuth : 351.71°
Vertical Section (Position of Origin Relative to Slot)
+N / -S : 0.00 US ft
+E / -W : 0.00 US ft
Az : 351.71°
Magnetic Parameters
Model : BGGM
Field Strength : 48137.4nT
Dec : 7.32°
Dip : 60.01°
Date : 15/Jun/2015

Collision / Uncertainty Analysis

Primary Well	Start MD (US ft)	End MD (US ft)	Collision Risk Interval	No. of Std Deviations in Error Computation
Paint 33 Fed 1H (p)	0.00	15492.05	100.00	2

Secondary Well Names

Lippizzan 4 Fed 1H (s)
Cotton Draw 33 Fed 1H (s)

Anti-Collision Report Terminology

S.Minor, S.Major : Radii of the ellipse of uncertainty at the current location as seen in the along hole direction.
PHI : Angle between high-side vector and semi-minor axis
TVD Spread : Total TVD range of the ellipsoid of uncertainty at the current location
ES : Distance between the extremities of the primary and secondary uncertainty ellipsoids in the direction Cr-Cr
T.Face to Sec : Angle between the Hi-Side vector of the primary well at the current location and line of closest approach between the two wells

Separation factors calculated using Pedal Curve (Independent Uncertainty). Well path created using minimum curvature.

5D Anti-Collision Report

Anti Collision Proximity Summary (TVD relative to Kelly Bushing)

SF

Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
Cotton Draw 33 Fed 1H (s)	8441.21	13038.00	8404.30	275.21	206.06	3.98	
Lippizzan 4 Fed 1H (s)	9350.20	9272.85	9303.46	355.70	312.90	8.31	

Primary Well : Paint 33 Fed 1H (p) (TVD Relative to Kelly Bushing ; All Azimuth Relative to GRID NORTH)

MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	243.29	0.00	0.00	Lippizzan 4 Fed 1H (s)	910.84	910.15	1326.92	
100.00	100.00	243.28	0.11	0.11	Lippizzan 4 Fed 1H (s)	910.58	909.64	971.67	
200.00	200.00	243.25	0.34	0.34	Lippizzan 4 Fed 1H (s)	910.35	909.02	686.79	
300.00	300.00	243.21	0.56	0.56	Lippizzan 4 Fed 1H (s)	910.52	908.74	509.91	
400.00	400.00	243.18	0.79	0.79	Lippizzan 4 Fed 1H (s)	910.80	908.56	405.75	
500.00	500.00	243.18	1.01	1.01	Lippizzan 4 Fed 1H (s)	911.15	908.52	346.19	
600.00	600.00	243.19	1.24	1.24	Lippizzan 4 Fed 1H (s)	911.57	908.58	304.79	
700.00	700.00	243.22	1.46	1.46	Lippizzan 4 Fed 1H (s)	911.83	908.47	271.53	
800.00	800.00	243.26	1.69	1.69	Lippizzan 4 Fed 1H (s)	912.04	908.29	243.79	
900.00	900.00	243.29	1.91	1.91	Lippizzan 4 Fed 1H (s)	912.12	907.92	217.17	
1000.00	1000.00	243.34	2.14	2.14	Lippizzan 4 Fed 1H (s)	912.18	907.55	197.16	
1100.00	1100.00	243.38	2.36	2.36	Lippizzan 4 Fed 1H (s)	912.23	907.19	181.22	
1200.00	1200.00	243.43	2.59	2.59	Lippizzan 4 Fed 1H (s)	912.26	906.83	168.15	
1300.00	1300.00	243.49	2.81	2.81	Lippizzan 4 Fed 1H (s)	912.28	906.42	155.81	
1400.00	1400.00	243.58	3.03	3.03	Lippizzan 4 Fed 1H (s)	912.20	905.88	144.37	
1500.00	1500.00	243.67	3.26	3.26	Lippizzan 4 Fed 1H (s)	911.77	904.99	134.56	
1600.00	1600.00	243.76	3.48	3.48	Lippizzan 4 Fed 1H (s)	911.16	903.94	126.20	
1700.00	1700.00	243.86	3.71	3.71	Lippizzan 4 Fed 1H (s)	910.28	902.61	118.68	
1800.00	1800.00	243.96	3.93	3.93	Lippizzan 4 Fed 1H (s)	909.31	901.18	111.88	
1900.00	1900.00	244.08	4.16	4.16	Lippizzan 4 Fed 1H (s)	908.05	899.47	105.83	
2000.00	2000.00	244.19	4.38	4.38	Lippizzan 4 Fed 1H (s)	906.62	897.58	100.29	
2100.00	2100.00	244.30	4.61	4.61	Lippizzan 4 Fed 1H (s)	905.15	895.65	95.32	
2200.00	2200.00	244.40	4.83	4.83	Lippizzan 4 Fed 1H (s)	903.66	893.72	90.91	
2300.00	2300.00	244.49	5.06	5.06	Lippizzan 4 Fed 1H (s)	902.21	891.82	86.82	
2400.00	2400.00	244.58	5.28	5.28	Lippizzan 4 Fed 1H (s)	900.95	890.10	83.01	
2500.00	2500.00	244.66	5.51	5.51	Lippizzan 4 Fed 1H (s)	899.80	888.48	79.46	
2600.00	2600.00	244.74	5.73	5.73	Lippizzan 4 Fed 1H (s)	898.53	886.74	76.23	
2700.00	2700.00	244.80	5.96	5.96	Lippizzan 4 Fed 1H (s)	897.19	884.95	73.29	
2800.00	2800.00	244.85	6.18	6.18	Lippizzan 4 Fed 1H (s)	895.88	883.20	70.64	
2900.00	2900.00	244.88	6.41	6.41	Lippizzan 4 Fed 1H (s)	894.54	881.42	68.18	
3000.00	3000.00	244.92	6.63	6.63	Lippizzan 4 Fed 1H (s)	893.11	879.55	65.86	

5D Anti-Collision Report

Primary Well : Paint 33 Fed 1H (p) (TVD Relative to Kelly Bushing / All Azimuth Relative to GRID NORTH)

MD (US ft)	TVD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
3100.00	3100.00	244.94	6.86	6.86	Lippizzan 4 Fed 1H (s)	891.61	877.60	63.62	
3200.00	3200.00	244.96	7.08	7.08	Lippizzan 4 Fed 1H (s)	890.07	875.61	61.56	
3300.00	3300.00	244.98	7.31	7.31	Lippizzan 4 Fed 1H (s)	888.59	873.69	59.65	
3400.00	3400.00	245.00	7.53	7.53	Lippizzan 4 Fed 1H (s)	887.20	871.87	57.87	
3500.00	3500.00	245.01	7.76	7.76	Lippizzan 4 Fed 1H (s)	885.59	869.82	56.19	
3600.00	3600.00	245.01	7.98	7.98	Lippizzan 4 Fed 1H (s)	883.66	867.44	54.49	
3700.00	3700.00	245.02	8.20	8.20	Lippizzan 4 Fed 1H (s)	881.38	864.70	52.85	
3800.00	3800.00	245.05	8.43	8.43	Lippizzan 4 Fed 1H (s)	878.89	861.75	51.30	
3900.00	3900.00	245.09	8.65	8.65	Lippizzan 4 Fed 1H (s)	876.66	859.08	49.86	
4000.00	4000.00	245.14	8.88	8.88	Lippizzan 4 Fed 1H (s)	874.59	856.54	48.46	
4100.00	4100.00	245.21	9.10	9.10	Lippizzan 4 Fed 1H (s)	872.25	853.73	47.10	
4200.00	4200.00	245.28	9.33	9.33	Lippizzan 4 Fed 1H (s)	869.62	850.64	45.81	
4300.00	4300.00	245.33	9.55	9.55	Lippizzan 4 Fed 1H (s)	866.67	847.21	44.53	
4400.00	4400.00	245.30	9.78	9.78	Lippizzan 4 Fed 1H (s)	863.14	843.21	43.31	
4500.00	4500.00	245.15	10.00	10.00	Lippizzan 4 Fed 1H (s)	858.87	838.54	42.26	
4600.00	4600.00	244.97	10.23	10.23	Lippizzan 4 Fed 1H (s)	855.31	834.64	41.38	
4700.00	4700.00	347.50	10.44	10.44	Lippizzan 4 Fed 1H (s)	852.21	831.15	40.46	
4800.00	4799.96	347.19	10.63	10.62	Lippizzan 4 Fed 1H (s)	846.71	825.31	39.56	
4900.00	4899.82	346.81	10.83	10.80	Lippizzan 4 Fed 1H (s)	838.51	816.77	38.57	
5000.00	4999.51	346.36	11.03	10.97	Lippizzan 4 Fed 1H (s)	827.90	805.85	37.56	
5100.00	5098.96	345.87	11.23	11.13	Lippizzan 4 Fed 1H (s)	815.17	792.76	36.37	
5200.00	5198.10	345.22	11.44	11.29	Lippizzan 4 Fed 1H (s)	799.87	777.12	35.15	
5300.00	5297.02	344.55	11.66	11.48	Lippizzan 4 Fed 1H (s)	783.06	759.94	33.86	
5400.00	5395.94	343.87	11.88	11.68	Lippizzan 4 Fed 1H (s)	766.60	743.16	32.70	
5500.00	5494.86	343.14	12.12	11.88	Lippizzan 4 Fed 1H (s)	750.39	726.56	31.50	
5600.00	5593.78	342.33	12.35	12.08	Lippizzan 4 Fed 1H (s)	734.20	710.06	30.41	
5700.00	5692.70	341.51	12.60	12.28	Lippizzan 4 Fed 1H (s)	718.28	693.73	29.27	
5800.00	5791.62	340.64	12.84	12.49	Lippizzan 4 Fed 1H (s)	702.25	677.34	28.19	
5900.00	5890.54	339.76	13.10	12.70	Lippizzan 4 Fed 1H (s)	686.13	660.86	27.15	
6000.00	5989.46	338.87	13.35	12.91	Lippizzan 4 Fed 1H (s)	669.99	644.30	26.08	
6100.00	6088.38	337.94	13.61	13.12	Lippizzan 4 Fed 1H (s)	654.05	627.96	25.07	
6200.00	6187.30	336.98	13.88	13.33	Lippizzan 4 Fed 1H (s)	638.33	611.86	24.12	
6300.00	6286.22	335.99	14.15	13.54	Lippizzan 4 Fed 1H (s)	622.77	595.89	23.17	
6400.00	6385.14	335.00	14.42	13.75	Lippizzan 4 Fed 1H (s)	607.43	580.09	22.22	
6500.00	6484.06	334.00	14.69	13.97	Lippizzan 4 Fed 1H (s)	592.48	564.69	21.32	
6600.00	6582.98	332.94	14.97	14.18	Lippizzan 4 Fed 1H (s)	577.80	549.56	20.46	

Primary Well : Paint 33 Fed 1H (p) (TVD Relative to Kelly Bushing ; All Azimuth Relative to GRID NORTH)

MD (US ft)	TVD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
6700.00	6681.90	331.84	15.26	14.40	Lippizzan 4 Fed 1H (s)	563.20	534.52	19.64	
6800.00	6780.82	330.67	15.54	14.62	Lippizzan 4 Fed 1H (s)	548.70	519.59	18.85	
6900.00	6879.74	329.45	15.83	14.84	Lippizzan 4 Fed 1H (s)	534.31	504.74	18.07	
7000.00	6978.66	328.21	16.12	15.06	Lippizzan 4 Fed 1H (s)	520.49	490.45	17.33	
7100.00	7077.58	326.91	16.41	15.28	Lippizzan 4 Fed 1H (s)	507.58	477.10	16.65	
7200.00	7176.50	325.52	16.70	15.50	Lippizzan 4 Fed 1H (s)	495.16	464.18	15.99	
7300.00	7275.42	324.09	17.00	15.72	Lippizzan 4 Fed 1H (s)	482.88	451.44	15.36	
7400.00	7374.34	322.60	17.30	15.94	Lippizzan 4 Fed 1H (s)	470.78	438.84	14.74	
7500.00	7473.26	321.04	17.60	16.17	Lippizzan 4 Fed 1H (s)	458.89	426.42	14.13	
7600.00	7572.18	319.40	17.90	16.39	Lippizzan 4 Fed 1H (s)	447.36	414.38	13.57	
7700.00	7671.09	317.68	18.21	16.62	Lippizzan 4 Fed 1H (s)	436.27	402.83	13.04	
7800.00	7770.01	315.87	18.51	16.84	Lippizzan 4 Fed 1H (s)	425.84	391.88	12.54	
7900.00	7868.93	72.26	18.82	17.07	Cotton Draw 33 Fed 1H (s)	622.43	566.09	11.05	
8000.00	7967.85	72.26	19.13	17.29	Cotton Draw 33 Fed 1H (s)	534.52	476.25	9.17	
8100.00	8066.77	72.26	19.44	17.52	Cotton Draw 33 Fed 1H (s)	451.66	390.82	7.42	
8200.00	8165.69	72.26	19.75	17.75	Cotton Draw 33 Fed 1H (s)	377.21	313.05	5.88	
8300.00	8264.61	72.26	20.07	17.98	Cotton Draw 33 Fed 1H (s)	317.14	249.52	4.69	
8400.00	8363.53	72.26	20.38	18.21	Cotton Draw 33 Fed 1H (s)	280.83	211.46	4.05	
8500.00	8462.45	72.26	20.70	18.44	Cotton Draw 33 Fed 1H (s)	277.77	210.45	4.13	
8600.00	8561.37	72.26	21.01	18.67	Cotton Draw 33 Fed 1H (s)	308.94	246.62	4.96	
8700.00	8660.29	72.26	21.33	18.90	Cotton Draw 33 Fed 1H (s)	365.70	307.97	6.34	
8800.00	8759.21	72.26	21.65	19.13	Cotton Draw 33 Fed 1H (s)	438.21	383.66	8.03	
8900.00	8858.13	290.66	21.97	19.36	Lippizzan 4 Fed 1H (s)	356.92	316.70	8.87	
9000.00	8957.05	288.14	22.29	19.59	Lippizzan 4 Fed 1H (s)	354.26	313.46	8.68	
9100.00	9055.97	285.50	22.62	19.82	Lippizzan 4 Fed 1H (s)	352.78	311.43	8.53	
9200.00	9154.89	282.84	22.94	20.05	Lippizzan 4 Fed 1H (s)	352.54	310.59	8.40	
9300.00	9253.81	280.10	23.26	20.28	Lippizzan 4 Fed 1H (s)	354.16	311.61	8.32	
9400.00	9352.76	277.32	23.57	20.53	Lippizzan 4 Fed 1H (s)	357.75	314.76	8.32	
9500.00	9451.93	274.67	23.82	20.76	Lippizzan 4 Fed 1H (s)	363.22	319.77	8.36	
9600.00	9551.30	272.23	24.07	20.98	Lippizzan 4 Fed 1H (s)	369.00	324.95	8.38	
9700.00	9650.85	270.38	24.30	21.20	Lippizzan 4 Fed 1H (s)	374.28	329.79	8.41	
9800.00	9750.56	268.91	24.52	21.41	Lippizzan 4 Fed 1H (s)	379.37	334.49	8.45	
9900.00	9850.38	267.79	24.72	21.61	Lippizzan 4 Fed 1H (s)	384.54	339.24	8.49	
10000.00	9950.29	267.00	24.92	21.80	Lippizzan 4 Fed 1H (s)	388.87	343.13	8.50	
10100.00	10050.26	266.45	25.10	21.98	Lippizzan 4 Fed 1H (s)	392.81	346.68	8.51	
10200.00	10150.25	163.34	25.28	22.15	Lippizzan 4 Fed 1H (s)	397.47	351.13	8.58	

5D Anti-Collision Report

Primary Well : Paint 33 Fed 1H (p) (TVD Relative to Kelly Bushing ; All Azimuth Relative to GRID NORTH)

MD (US ft)	TVD (US ft)	T. Face to Sect (°)	S. Major (US ft)	S. Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
10300.00	10250.25	163.29	25.46	22.36	Lippizzan 4 Fed 1H (s)	409.32	363.11	8.86	
10400.00	10349.46	162.65	25.29	22.49	Lippizzan 4 Fed 1H (s)	441.90	396.07	9.64	
10500.00	10444.68	161.48	24.61	22.62	Lippizzan 4 Fed 1H (s)	497.85	452.34	10.94	
10600.00	10532.42	159.01	23.64	22.47	Lippizzan 4 Fed 1H (s)	571.92	526.75	12.66	
10700.00	10609.46	152.72	23.20	21.64	Lippizzan 4 Fed 1H (s)	658.98	614.06	14.67	
10800.00	10672.97	133.82	23.33	20.04	Lippizzan 4 Fed 1H (s)	754.11	709.29	16.83	
10900.00	10720.61	73.55	23.56	18.58	Lippizzan 4 Fed 1H (s)	852.69	807.99	19.07	
11000.00	10750.63	29.46	23.91	17.54	Lippizzan 4 Fed 1H (s)	950.78	905.97	21.22	
11100.00	10761.92	16.43	24.40	17.17	Lippizzan 4 Fed 1H (s)	1045.12	1000.14	23.23	
11200.00	10762.00	15.26	24.95	17.34	Lippizzan 4 Fed 1H (s)	1136.46	1091.33	25.19	
11300.00	10762.00	14.78	25.57	17.52	Lippizzan 4 Fed 1H (s)	1228.59	1183.23	27.09	
11400.00	10762.00	14.33	26.44	17.74	Lippizzan 4 Fed 1H (s)	1321.43	1276.02	29.10	
11500.00	10762.00	13.94	27.29	17.98	Lippizzan 4 Fed 1H (s)	1414.87	1369.25	31.01	
11600.00	10762.00	13.65	28.31	18.26	Lippizzan 4 Fed 1H (s)	1508.87	1463.11	32.97	
11700.00	10762.00	13.39	29.27	18.56	Lippizzan 4 Fed 1H (s)	1603.40	1557.56	34.98	
11800.00	10762.00	13.16	30.48	18.89	Lippizzan 4 Fed 1H (s)	1698.38	1652.39	36.93	
11900.00	10762.00	12.92	31.69	19.23	Lippizzan 4 Fed 1H (s)	1793.77	1747.64	38.88	
12000.00	10762.00	12.70	32.92	19.61	Lippizzan 4 Fed 1H (s)	1889.50	1843.26	40.87	
12100.00	10762.00	12.50	34.16	20.00	Lippizzan 4 Fed 1H (s)	1985.55	1939.22	42.86	
12200.00	10762.00	12.32	35.50	20.41	Lippizzan 4 Fed 1H (s)	2081.87	2035.45	44.84	
12300.00	10762.00	12.17	36.94	20.83	Lippizzan 4 Fed 1H (s)	2178.45	2131.94	46.84	
12400.00	10762.00	12.04	38.39	21.26	Lippizzan 4 Fed 1H (s)	2275.26	2228.68	48.85	
12500.00	10762.00	3.31	39.87	21.70	Cotton Draw 33 Fed 1H (s)	2370.28	2322.24	49.34	
12600.00	10762.00	3.50	41.36	22.16	Cotton Draw 33 Fed 1H (s)	2371.67	2323.83	49.58	
12700.00	10762.00	3.73	42.86	22.71	Cotton Draw 33 Fed 1H (s)	2372.13	2324.54	49.84	
12800.00	10762.00	3.92	44.37	23.19	Cotton Draw 33 Fed 1H (s)	2371.99	2324.68	50.13	
12900.00	10762.00	4.05	45.88	23.73	Cotton Draw 33 Fed 1H (s)	2371.48	2324.31	50.28	
13000.00	10762.00	4.17	47.31	24.34	Cotton Draw 33 Fed 1H (s)	2370.79	2323.71	50.35	
13100.00	10762.00	4.24	48.97	24.76	Cotton Draw 33 Fed 1H (s)	2371.28	2324.03	50.19	
13200.00	10762.00	4.32	50.60	25.32	Cotton Draw 33 Fed 1H (s)	2373.33	2325.97	50.10	
13300.00	10762.00	4.48	52.21	25.85	Cotton Draw 33 Fed 1H (s)	2376.14	2328.99	50.39	
13400.00	10762.00	4.79	53.82	26.46	Cotton Draw 33 Fed 1H (s)	2375.95	2329.11	50.72	
13500.00	10762.00	4.96	55.45	27.04	Cotton Draw 33 Fed 1H (s)	2376.14	2329.17	50.59	
13600.00	10762.00	5.15	57.13	27.60	Cotton Draw 33 Fed 1H (s)	2377.15	2330.14	50.56	
13700.00	10762.00	5.42	58.82	28.17	Cotton Draw 33 Fed 1H (s)	2378.12	2331.20	50.68	
13800.00	10762.00	5.67	60.51	28.75	Cotton Draw 33 Fed 1H (s)	2378.18	2331.23	50.66	

Primary Well : Paint 33 Fed 1H (p) (TVD Relative to Kelly Bushing ; All Azimuth Relative to GRID NORTH)

MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
13900.00	10762.00	5.80	62.21	29.33	Cotton Draw 33 Fed 1H (s)	2378.63	2331.59	50.57	
14000.00	10762.00	5.86	63.92	29.92	Cotton Draw 33 Fed 1H (s)	2379.24	2332.05	50.42	
14100.00	10762.00	5.86	65.63	30.51	Cotton Draw 33 Fed 1H (s)	2380.62	2333.32	50.33	
14200.00	10762.00	5.81	67.35	31.13	Cotton Draw 33 Fed 1H (s)	2381.05	2333.71	50.30	
14300.00	10762.00	5.76	69.07	31.76	Cotton Draw 33 Fed 1H (s)	2381.19	2333.75	50.19	
14400.00	10762.00	5.73	70.80	32.40	Cotton Draw 33 Fed 1H (s)	2380.61	2333.08	50.08	
14500.00	10762.00	5.69	72.53	33.04	Cotton Draw 33 Fed 1H (s)	2379.99	2332.17	49.77	
14600.00	10762.00	5.66	74.27	33.68	Cotton Draw 33 Fed 1H (s)	2379.89	2331.78	49.47	
14700.00	10762.00	5.75	76.01	34.33	Cotton Draw 33 Fed 1H (s)	2379.38	2331.10	49.28	
14800.00	10762.00	5.94	77.75	34.98	Cotton Draw 33 Fed 1H (s)	2378.17	2329.52	48.88	
14900.00	10762.00	6.13	79.50	35.63	Cotton Draw 33 Fed 1H (s)	2377.83	2328.72	48.42	
15000.00	10762.00	6.46	81.25	36.28	Cotton Draw 33 Fed 1H (s)	2378.25	2328.68	47.98	
15100.00	10762.00	6.86	83.00	36.94	Cotton Draw 33 Fed 1H (s)	2379.27	2329.14	47.46	
15200.00	10762.00	7.19	84.76	37.60	Cotton Draw 33 Fed 1H (s)	2381.54	2330.80	46.94	
15300.00	10762.00	7.40	86.52	38.26	Cotton Draw 33 Fed 1H (s)	2386.01	2334.64	46.45	
15400.00	10762.00	7.53	88.28	38.92	Cotton Draw 33 Fed 1H (s)	2393.57	2341.58	46.04	
15492.05	10762.00	7.61	89.91	39.54	Cotton Draw 33 Fed 1H (s)	2403.58	2351.06	45.76	

Secondary Well : Lippizzan 4 Fed 1H (s) (TVD Relative to Kelly Bushing (Primary) ; All Azimuth Relative to GRID NORTH)

Pri.MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
0.00	16.50	0.00	243.29	0.00	0.00	910.84	910.15	1326.92	
100.00	102.47	85.97	243.28	0.14	0.14	910.58	909.64	971.67	
200.00	199.48	182.99	243.25	0.31	0.31	910.35	909.02	686.79	
300.00	298.10	281.60	243.21	0.54	0.54	910.52	908.74	509.91	
400.00	396.58	380.09	243.18	0.78	0.78	910.80	908.56	405.75	
500.00	497.14	480.64	243.18	0.94	0.94	911.15	908.52	346.19	
600.00	595.83	579.34	243.19	1.08	1.08	911.57	908.58	304.79	
700.00	698.42	681.92	243.22	1.22	1.22	911.83	908.47	271.53	
800.00	799.19	782.70	243.26	1.38	1.38	912.04	908.29	243.79	
900.00	899.34	882.85	243.29	1.61	1.61	912.12	907.92	217.17	
1000.00	999.49	983.01	243.34	1.81	1.81	912.18	907.55	197.16	
1100.00	1099.64	1083.16	243.38	2.00	2.00	912.23	907.19	181.22	
1200.00	1199.79	1183.31	243.43	2.16	2.16	912.26	906.83	168.15	
1300.00	1299.85	1283.37	243.49	2.38	2.38	912.28	906.42	155.81	
1400.00	1401.88	1385.42	243.58	2.61	2.61	912.20	905.88	144.37	
1500.00	1506.04	1489.59	243.67	2.84	2.84	911.77	904.99	134.56	
1600.00	1605.39	1588.94	243.76	3.06	3.06	911.16	903.94	126.20	
1700.00	1709.65	1693.22	243.86	3.30	3.30	910.28	902.61	118.68	
1800.00	1809.17	1792.76	243.96	3.52	3.52	909.31	901.18	111.88	
1900.00	1912.75	1896.37	244.08	3.76	3.76	908.05	899.47	105.83	
2000.00	2013.20	1996.84	244.19	3.99	3.99	906.62	897.58	100.29	
2100.00	2113.42	2097.09	244.30	4.22	4.22	905.15	895.65	95.32	
2200.00	2213.47	2197.16	244.40	4.45	4.45	903.66	893.72	90.91	
2300.00	2312.26	2295.97	244.49	4.68	4.68	902.21	891.82	86.82	
2400.00	2410.44	2394.17	244.58	4.91	4.91	900.95	890.10	83.01	
2500.00	2510.85	2494.60	244.66	5.16	5.15	899.80	888.48	79.46	
2600.00	2611.98	2595.74	244.74	5.40	5.39	898.53	886.74	76.23	

Secondary Well # Lippizzan 4 Fed 1H (s) (TVD Relative to Kelly Bushing (Primary); All Azimuth Relative to GRID NORTH)								
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
2700.00	2711.88	2695.66	244.80	5.63	5.62	897.19	884.95	73.29	
2800.00	2811.64	2795.43	244.85	5.85	5.84	895.88	883.20	70.64	
2900.00	2912.42	2896.21	244.88	6.07	6.07	894.54	881.42	68.18	
3000.00	3013.14	2996.95	244.92	6.29	6.29	893.11	879.55	65.86	
3100.00	3113.57	3097.39	244.94	6.51	6.50	891.61	877.60	63.62	
3200.00	3213.64	3197.47	244.96	6.72	6.72	890.07	875.61	61.56	
3300.00	3312.65	3296.50	244.98	6.94	6.94	888.59	873.69	59.65	
3400.00	3412.92	3396.78	245.00	7.16	7.15	887.20	871.87	57.87	
3500.00	3515.63	3499.50	245.01	7.38	7.37	885.59	869.82	56.19	
3600.00	3618.56	3602.45	245.01	7.60	7.60	883.66	867.44	54.49	
3700.00	3721.72	3705.63	245.02	7.83	7.82	881.38	864.70	52.85	
3800.00	3820.88	3804.82	245.05	8.06	8.05	878.89	861.75	51.30	
3900.00	3918.15	3902.13	245.09	8.29	8.28	876.66	859.08	49.86	
4000.00	4019.21	4003.20	245.14	8.54	8.53	874.59	856.54	48.46	
4100.00	4121.60	4105.63	245.21	8.79	8.78	872.25	853.73	47.10	
4200.00	4224.24	4208.31	245.28	9.05	9.04	869.62	850.64	45.81	
4300.00	4327.11	4311.23	245.33	9.30	9.28	866.67	847.21	44.53	
4400.00	4434.07	4418.26	245.30	9.52	9.51	863.14	843.21	43.31	
4500.00	4535.87	4520.18	245.15	9.71	9.70	858.87	838.54	42.26	
4600.00	4625.01	4609.41	244.97	9.85	9.84	855.31	834.64	41.38	
4700.00	4722.94	4707.44	347.50	9.99	9.98	852.21	831.15	40.46	
4800.00	4826.54	4811.16	347.19	10.14	10.14	846.71	825.31	39.56	
4900.00	4926.07	4910.81	346.81	10.29	10.29	838.51	816.77	38.57	
5000.00	5022.55	5007.43	346.36	10.44	10.43	827.90	805.85	37.56	
5100.00	5119.60	5104.59	345.87	10.59	10.58	815.17	792.76	36.37	
5200.00	5220.06	5205.21	345.22	10.74	10.73	799.87	777.12	35.15	
5300.00	5317.07	5302.40	344.55	10.88	10.87	783.06	759.94	33.86	
5400.00	5413.06	5398.55	343.87	11.03	11.02	766.60	743.16	32.70	
5500.00	5511.22	5496.89	343.14	11.18	11.16	750.39	726.56	31.50	
5600.00	5609.19	5595.08	342.33	11.34	11.31	734.20	710.06	30.41	
5700.00	5707.36	5693.44	341.51	11.50	11.47	718.28	693.73	29.27	
5800.00	5807.46	5793.74	340.64	11.67	11.64	702.25	677.34	28.19	
5900.00	5907.11	5893.57	339.76	11.85	11.81	686.13	660.86	27.15	
6000.00	6005.42	5992.05	338.87	12.03	11.99	669.99	644.30	26.08	
6100.00	6103.00	6089.80	337.94	12.22	12.17	654.05	627.96	25.07	
6200.00	6200.99	6187.95	336.98	12.41	12.36	638.33	611.86	24.12	
6300.00	6299.21	6286.33	335.99	12.60	12.55	622.77	595.89	23.17	
6400.00	6396.36	6383.60	335.00	12.80	12.74	607.43	580.09	22.22	
6500.00	6493.35	6480.70	334.00	13.00	12.94	592.48	564.69	21.32	
6600.00	6592.04	6579.49	332.94	13.20	13.14	577.80	549.56	20.46	
6700.00	6690.96	6678.51	331.84	13.41	13.34	563.20	534.52	19.64	
6800.00	6789.86	6777.52	330.67	13.62	13.55	548.70	519.59	18.85	
6900.00	6888.44	6876.20	329.45	13.83	13.76	534.31	504.74	18.07	
7000.00	6983.20	6971.06	328.21	14.03	13.95	520.49	490.45	17.33	
7100.00	7078.50	7066.45	326.91	14.23	14.15	507.58	477.10	16.65	
7200.00	7177.61	7165.64	325.52	14.43	14.35	495.16	464.18	15.99	
7300.00	7276.75	7264.85	324.09	14.64	14.55	482.88	451.44	15.36	
7400.00	7375.80	7363.97	322.60	14.85	14.76	470.78	438.84	14.74	
7500.00	7474.60	7462.84	321.04	15.06	14.97	458.89	426.42	14.13	
7600.00	7572.80	7561.10	319.40	15.28	15.18	447.36	414.38	13.57	
7700.00	7670.65	7659.02	317.68	15.49	15.39	436.27	402.83	13.04	
7800.00	7767.91	7756.36	315.87	15.70	15.60	425.84	391.88	12.54	
7900.00	7865.40	7853.93	313.96	15.90	15.80	416.11	381.57	12.04	
8000.00	7963.26	7951.88	311.94	16.11	16.01	407.05	371.94	11.59	
8100.00	8060.70	8049.40	309.80	16.32	16.21	398.70	363.07	11.19	
8200.00	8158.36	8147.17	307.59	16.52	16.41	391.23	355.13	10.84	
8300.00	8256.95	8245.85	305.32	16.72	16.61	384.40	347.65	10.46	
8400.00	8355.16	8344.15	302.99	16.93	16.81	378.19	340.85	10.13	

Secondary Well: Lippizzan 4 Fed 1H (S) (TVD Relative to Kelly Bushing (Primary) ; All Azimuth Relative to GRID NORTH)

Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
8500.00	8452.82	8441.89	300.61	17.13	17.01	372.81	334.96	9.85	
8600.00	8551.56	8540.72	298.16	17.33	17.21	368.26	329.83	9.58	
8700.00	8651.38	8640.62	295.63	17.54	17.41	364.16	325.12	9.33	
8800.00	8751.47	8740.77	293.13	17.75	17.61	360.38	320.75	9.09	
8900.00	8851.04	8840.38	290.66	17.96	17.82	356.92	316.70	8.87	
9000.00	8947.83	8937.22	288.14	18.17	18.03	354.26	313.46	8.68	
9100.00	9045.78	9035.24	285.50	18.38	18.24	352.78	311.43	8.53	
9200.00	9141.06	9130.61	282.84	18.59	18.45	352.54	310.59	8.40	
9300.00	9235.67	9225.38	280.10	18.80	18.65	354.16	311.61	8.32	
9400.00	9329.97	9319.91	277.32	19.01	18.85	357.75	314.76	8.32	
9500.00	9426.09	9416.34	274.67	19.23	19.06	363.22	319.77	8.36	
9600.00	9530.53	9521.04	272.23	19.47	19.30	369.00	324.95	8.38	
9700.00	9631.06	9621.76	270.38	19.69	19.52	374.28	329.79	8.41	
9800.00	9732.00	9722.84	268.91	19.91	19.73	379.37	334.49	8.45	
9900.00	9832.02	9822.98	267.79	20.13	19.94	384.54	339.24	8.49	
10000.00	9935.47	9926.53	267.00	20.35	20.16	388.87	343.13	8.50	
10100.00	10035.31	10026.45	266.45	20.58	20.38	392.81	346.68	8.51	
10200.00	10120.74	10111.97	163.34	20.71	20.52	397.47	351.13	8.58	
10300.00	10180.53	10172.18	163.29	20.65	20.49	409.32	363.11	8.86	
10400.00	10231.95	10224.98	162.65	20.65	20.19	441.90	396.07	9.64	
10500.00	10281.04	10276.47	161.48	20.63	20.04	497.85	452.34	10.94	
10600.00	10320.09	10318.29	159.01	20.64	19.88	571.92	526.75	12.66	
10700.00	10344.48	10344.83	152.72	20.65	19.73	658.98	614.06	14.67	
10800.00	10356.27	10357.80	133.82	20.66	19.64	754.11	709.29	16.83	
10900.00	10358.66	10360.45	73.55	20.66	19.62	852.69	807.99	19.07	
11000.00	10353.32	10354.54	29.46	20.66	19.66	950.78	905.97	21.22	
11100.00	10341.64	10341.71	16.43	20.65	19.76	1045.12	1000.14	23.23	
11200.00	10325.72	10324.38	15.26	20.65	19.85	1136.46	1091.33	25.19	
11300.00	10310.96	10308.45	14.78	20.64	19.92	1228.59	1183.23	27.09	
11400.00	10296.39	10292.82	14.33	20.64	19.98	1321.43	1276.02	29.10	
11500.00	10282.90	10278.44	13.94	20.63	20.04	1414.87	1369.25	31.01	
11600.00	10272.93	10267.88	13.65	20.64	20.06	1508.87	1463.11	32.97	
11700.00	10263.86	10258.31	13.39	20.64	20.10	1603.40	1557.56	34.98	
11800.00	10255.51	10249.55	13.16	20.65	20.13	1698.38	1652.39	36.93	
11900.00	10247.25	10240.90	12.92	20.65	20.15	1793.77	1747.64	38.88	
12000.00	10239.34	10232.66	12.70	20.65	20.17	1889.50	1843.26	40.87	
12100.00	10231.97	10225.00	12.50	20.65	20.19	1985.55	1939.22	42.86	
12200.00	10225.10	10217.88	12.32	20.65	20.23	2081.87	2035.45	44.84	
12300.00	10219.48	10212.06	12.17	20.65	20.27	2178.45	2131.94	46.84	
12400.00	10214.79	10207.23	12.04	20.65	20.30	2275.26	2228.68	48.85	
12500.00	10210.40	10202.71	11.93	20.65	20.33	2372.30	2325.66	50.87	
12600.00	10206.28	10198.47	11.83	20.65	20.36	2469.53	2422.86	52.92	
12700.00	10202.40	10194.50	11.74	20.65	20.38	2566.93	2520.22	54.95	
12800.00	10198.76	10190.76	11.65	20.65	20.41	2664.50	2617.63	56.84	
12900.00	10195.31	10187.24	11.57	20.65	20.42	2762.22	2715.27	58.84	
13000.00	10192.08	10183.94	11.50	20.65	20.44	2860.06	2813.07	60.86	
13100.00	10189.81	10181.62	11.45	20.65	20.46	2958.04	2911.00	62.88	
13200.00	10187.67	10179.44	11.40	20.65	20.47	3056.13	3008.97	64.81	
13300.00	10185.64	10177.37	11.36	20.65	20.47	3154.32	3107.17	66.90	
13400.00	10183.72	10175.42	11.31	20.65	20.48	3252.62	3205.37	68.84	
13500.00	10181.90	10173.57	11.27	20.65	20.49	3351.01	3303.69	70.82	
13600.00	10180.17	10171.82	11.24	20.65	20.50	3449.48	3402.10	72.81	
13700.00	10178.53	10170.15	11.20	20.66	20.50	3548.02	3500.59	74.80	
13800.00	10176.97	10168.57	11.17	20.66	20.51	3646.64	3599.17	76.81	
13900.00	10175.48	10167.06	11.14	20.66	20.52	3745.33	3697.81	78.81	
14000.00	10174.06	10165.62	11.10	20.66	20.52	3844.08	3796.52	80.82	
14100.00	10172.70	10164.25	11.08	20.66	20.53	3942.88	3895.28	82.83	
14200.00	10171.41	10162.94	11.05	20.66	20.46	4041.74	3994.10	84.83	

Secondary Well : Lippizzan 4 Fed 1H (S) (TVD Relative to Kelly Bushing (Primary) ; All Azimuth Relative to GRID NORTH)								
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
14300.00	10170.17	10161.69	11.02	20.66	20.46	4140.65	4092.97	86.84	
14400.00	10168.98	10160.49	11.00	20.67	20.46	4239.61	4191.89	88.84	
14500.00	10167.84	10159.34	10.97	20.67	20.45	4338.61	4290.85	90.84	
14600.00	10166.75	10158.24	10.95	20.67	20.46	4437.65	4389.85	92.83	
14700.00	10165.71	10157.18	10.93	20.67	20.46	4536.74	4488.89	94.83	
14800.00	10164.70	10156.17	10.91	20.67	20.46	4635.85	4587.97	96.82	
14900.00	10163.73	10155.19	10.89	20.67	20.47	4735.01	4687.08	98.80	
15000.00	10162.80	10154.25	10.87	20.67	20.47	4834.19	4786.23	100.79	
15100.00	10161.90	10153.35	10.85	20.67	20.47	4933.41	4885.40	102.77	
15200.00	10161.04	10152.48	10.83	20.67	20.47	5032.65	4984.60	104.74	
15300.00	10159.87	10151.30	10.81	20.68	20.53	5131.92	5083.83	106.72	
15400.00	10158.32	10149.74	10.77	20.68	20.53	5231.22	5183.08	108.68	
15492.05	10156.94	10148.35	10.75	20.68	20.53	5322.64	5274.46	110.47	

Secondary Well : Cotton Draw 33 Fed 1H (S) (TVD Relative to Kelly Bushing (Primary) ; All Azimuth Relative to GRID NORTH)								
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
0.00	-5.51	17.49	359.32	0.05	0.05	4754.90	4754.09	5890.03	
100.00	72.21	95.21	359.31	0.17	0.17	4755.27	4754.23	4582.26	
200.00	160.86	183.87	359.30	0.39	0.39	4755.99	4754.52	3221.57	
300.00	271.59	294.60	359.29	0.68	0.68	4756.63	4754.63	2382.99	
400.00	358.79	381.81	359.28	0.91	0.91	4757.37	4754.93	1944.13	
500.00	453.35	476.38	359.27	1.16	1.16	4758.30	4755.37	1628.79	
600.00	558.94	581.99	359.25	1.43	1.43	4759.32	4755.90	1389.82	
700.00	694.04	717.12	359.22	1.77	1.77	4759.68	4755.69	1193.11	
800.00	818.33	841.43	359.19	2.07	2.07	4759.57	4755.07	1056.21	
900.00	917.63	940.74	359.17	2.31	2.30	4759.17	4754.20	957.23	
1000.00	996.36	1019.49	359.15	2.50	2.50	4759.03	4753.64	883.13	
1100.00	1090.91	1114.05	359.13	2.75	2.75	4759.18	4753.33	812.98	
1200.00	1182.42	1205.58	359.11	2.99	2.99	4759.46	4753.13	752.93	
1300.00	1273.30	1296.48	359.09	3.23	3.23	4759.92	4753.13	701.41	
1400.00	1371.79	1394.98	359.07	3.49	3.49	4760.51	4753.24	654.85	
1500.00	1467.87	1491.08	359.05	3.75	3.74	4761.14	4753.39	614.38	
1600.00	1569.13	1592.36	359.02	4.02	4.01	4761.81	4753.56	577.62	
1700.00	1662.48	1685.73	359.00	4.27	4.26	4762.52	4753.80	546.29	
1800.00	1737.75	1761.01	358.99	4.45	4.44	4763.56	4754.43	521.66	
1900.00	1829.12	1852.39	358.98	4.65	4.65	4765.02	4755.45	498.15	
2000.00	1936.84	1960.12	358.98	4.90	4.89	4766.45	4756.41	475.09	
2100.00	2051.52	2074.82	358.96	5.19	5.18	4767.60	4757.06	452.31	
2200.00	2129.58	2152.90	358.95	5.39	5.38	4768.85	4757.89	435.09	
2300.00	2228.77	2252.10	358.93	5.64	5.63	4770.37	4758.94	417.27	
2400.00	2334.41	2357.76	358.93	5.88	5.87	4771.80	4759.89	400.62	
2500.00	2444.18	2467.54	358.93	6.08	6.08	4773.10	4760.76	386.66	
2600.00	2559.74	2583.10	358.93	6.24	6.23	4774.04	4761.32	375.34	
2700.00	2657.71	2681.07	358.94	6.35	6.34	4774.90	4761.86	366.08	
2800.00	2761.24	2784.61	358.95	6.46	6.45	4775.78	4762.41	357.15	
2900.00	2862.93	2886.32	358.97	6.56	6.56	4776.54	4762.82	348.23	
3000.00	2972.07	2995.47	358.98	6.67	6.66	4777.27	4763.22	339.95	
3100.00	3071.76	3095.17	359.00	6.76	6.75	4777.82	4763.46	332.64	
3200.00	3175.64	3199.07	359.02	6.86	6.86	4778.39	4763.71	325.60	
3300.00	3273.72	3297.15	359.03	6.98	6.97	4778.91	4763.89	318.18	
3400.00	3370.33	3393.77	359.04	7.11	7.10	4779.50	4764.11	310.66	
3500.00	3474.92	3498.36	359.05	7.26	7.25	4780.06	4764.30	303.19	
3600.00	3565.42	3588.87	359.06	7.39	7.39	4780.68	4764.56	296.53	
3700.00	8405.34	12941.81	288.91	74.00	35.88	4753.41	4711.16	112.50	
3800.00	8405.48	12945.34	288.62	74.06	35.91	4654.44	4612.04	109.76	
3900.00	8405.62	12948.89	288.32	74.11	35.93	4555.52	4512.95	107.01	
4000.00	8405.76	12952.46	288.03	74.17	35.95	4456.64	4413.86	104.20	
4100.00	8405.90	12956.04	287.74	74.22	35.98	4357.80	4314.82	101.38	

Secondary Well : Cotton Draw 33 Fed 1H (s) (TVD Relative to Kelly Bushing (Primary)) ; All Azimuth Relative to GRID NORTH)								
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	Trace to Sec (°)	S Major (US ft)	S Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
4200.00	8406.04	12959.64	287.44	74.28	36.00	4259.02	4215.82	98.59	
4300.00	8406.19	12963.25	287.14	74.34	36.03	4160.29	4116.87	95.81	
4400.00	8406.33	12966.88	286.84	74.39	36.05	4061.62	4017.97	93.05	
4500.00	8406.48	12970.52	286.53	74.45	36.08	3963.01	3919.13	90.31	
4600.00	8406.62	12974.18	286.23	74.51	36.10	3864.48	3820.39	87.66	
4700.00	8406.77	12977.94	30.84	74.56	36.13	3765.96	3721.63	84.95	
4800.00	8406.96	12982.56	35.59	74.64	36.16	3667.19	3622.62	82.27	
4900.00	8407.18	12987.99	41.70	74.72	36.20	3568.16	3523.35	79.62	
5000.00	8407.42	12994.12	49.68	74.82	36.24	3468.92	3423.87	77.01	
5100.00	8407.70	13000.95	60.14	74.93	36.29	3369.50	3324.23	74.43	
5200.00	8408.00	13008.48	73.46	75.04	36.34	3269.97	3224.48	71.88	
5300.00	8408.32	13016.42	74.55	75.17	36.40	3170.40	3124.70	69.37	
5400.00	8408.64	13024.37	73.74	75.29	36.46	3070.83	3024.91	66.88	
5500.00	8408.95	13032.32	72.89	75.42	36.51	2971.27	2925.13	64.40	
5600.00	8409.18	13038.00	72.26	75.50	36.55	2871.72	2825.37	61.97	
5700.00	8409.18	13038.00	72.26	75.50	36.55	2772.19	2725.68	59.60	
5800.00	8409.18	13038.00	72.26	75.50	36.55	2672.70	2626.01	57.24	
5900.00	8409.18	13038.00	72.26	75.50	36.55	2573.25	2526.37	54.89	
6000.00	8409.18	13038.00	72.26	75.50	36.55	2473.85	2426.78	52.56	
6100.00	8409.18	13038.00	72.26	75.50	36.55	2374.49	2327.23	50.24	
6200.00	8409.18	13038.00	72.26	75.50	36.55	2275.19	2227.73	47.94	
6300.00	8409.18	13038.00	72.26	75.50	36.55	2175.96	2128.28	45.64	
6400.00	8409.18	13038.00	72.26	75.50	36.55	2076.79	2028.90	43.36	
6500.00	8409.18	13038.00	72.26	75.50	36.55	1977.72	1929.60	41.10	
6600.00	8409.18	13038.00	72.26	75.50	36.55	1878.74	1830.38	38.85	
6700.00	8409.18	13038.00	72.26	75.50	36.55	1779.87	1731.27	36.62	
6800.00	8409.18	13038.00	72.26	75.50	36.55	1681.14	1632.26	34.39	
6900.00	8409.18	13038.00	72.26	75.50	36.55	1582.57	1533.34	32.15	
7000.00	8409.18	13038.00	72.26	75.50	36.55	1484.19	1434.59	29.92	
7100.00	8409.18	13038.00	72.26	75.50	36.55	1386.04	1336.04	27.72	
7200.00	8409.18	13038.00	72.26	75.50	36.55	1288.17	1237.74	25.54	
7300.00	8409.18	13038.00	72.26	75.50	36.55	1190.66	1139.73	23.38	
7400.00	8409.18	13038.00	72.26	75.50	36.55	1093.60	1042.12	21.24	
7500.00	8409.18	13038.00	72.26	75.50	36.55	997.13	945.04	19.14	
7600.00	8409.18	13038.00	72.26	75.50	36.55	901.42	848.67	17.09	
7700.00	8409.18	13038.00	72.26	75.50	36.55	806.75	753.12	15.04	
7800.00	8409.18	13038.00	72.26	75.50	36.55	713.53	658.65	13.00	
7900.00	8409.18	13038.00	72.26	75.50	36.55	622.43	566.09	11.05	
8000.00	8409.18	13038.00	72.26	75.50	36.55	534.52	476.25	9.17	
8100.00	8409.18	13038.00	72.26	75.50	36.55	451.66	390.82	7.42	
8200.00	8409.18	13038.00	72.26	75.50	36.55	377.21	313.05	5.88	
8300.00	8409.18	13038.00	72.26	75.50	36.55	317.14	249.52	4.69	
8400.00	8409.18	13038.00	72.26	75.50	36.55	280.83	211.46	4.05	
8500.00	8409.18	13038.00	72.26	75.50	36.55	277.77	210.45	4.13	
8600.00	8409.18	13038.00	72.26	75.50	36.55	308.94	246.62	4.96	
8700.00	8409.18	13038.00	72.26	75.50	36.55	365.70	307.97	6.34	
8800.00	8409.18	13038.00	72.26	75.50	36.55	438.21	383.66	8.03	
8900.00	8409.18	13038.00	72.26	75.50	36.55	519.92	467.15	9.85	
9000.00	8409.18	13038.00	72.26	75.50	36.55	607.13	555.32	11.72	
9100.00	8409.18	13038.00	72.26	75.50	36.55	697.78	646.61	13.64	
9200.00	8409.18	13038.00	72.26	75.50	36.55	790.69	739.65	15.49	
9300.00	8409.18	13038.00	72.26	75.50	36.55	885.14	834.14	17.36	
9400.00	8409.18	13038.00	73.93	75.50	36.55	980.71	929.76	19.25	
9500.00	8409.18	13038.00	77.49	75.50	36.55	1077.20	1026.20	21.12	
9600.00	8409.18	13038.00	81.53	75.50	36.55	1174.36	1123.08	22.90	
9700.00	8409.18	13038.00	86.04	75.50	36.55	1272.01	1220.46	24.68	
9800.00	8409.18	13038.00	90.98	75.50	36.55	1370.02	1318.23	26.45	
9900.00	8409.18	13038.00	96.29	75.50	36.55	1468.30	1416.26	28.21	

Secondary Well : Cotton Draw 33 Fed 1H (s) (TVD Relative to Kelly Bushing (Primary)) ; All Azimuth Relative to GRID NORTH)								
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
10000.00	8409.18	13038.00	101.86	75.50	36.55	1566.76	1514.48	29.97	
10100.00	8409.18	13038.00	107.55	75.50	36.55	1665.35	1612.83	31.71	
10200.00	8409.18	13038.00	9.94	75.50	36.55	1764.01	1711.23	33.42	
10300.00	8409.18	13038.00	8.93	75.50	36.55	1862.77	1809.71	35.10	
10400.00	8409.18	13038.00	4.20	75.50	36.55	1959.30	1905.96	36.73	
10500.00	8409.18	13038.00	2.76	75.50	36.55	2049.94	1996.34	38.25	
10600.00	8409.18	13038.00	2.08	75.50	36.55	2132.31	2078.50	39.63	
10700.00	8409.18	13038.00	1.70	75.50	36.55	2204.47	2150.51	40.85	
10800.00	8409.18	13038.00	1.47	75.50	36.55	2264.86	2210.76	41.86	
10900.00	8409.18	13038.00	1.33	75.50	36.55	2312.25	2258.04	42.65	
11000.00	8407.72	13001.54	1.28	74.93	36.30	2345.46	2291.36	43.36	
11100.00	8403.65	12898.17	1.37	73.32	35.58	2360.77	2307.25	44.10	
11200.00	8399.26	12772.36	1.51	71.32	34.73	2364.52	2311.69	44.76	
11300.00	8397.10	12614.96	1.66	68.79	33.67	2365.92	2313.97	45.55	
11400.00	8396.96	12503.95	1.75	67.09	32.91	2366.15	2314.75	46.03	
11500.00	8397.47	12396.57	1.85	65.42	32.17	2365.78	2314.87	46.47	
11600.00	8397.66	12301.13	1.94	63.97	31.51	2365.69	2315.17	46.83	
11700.00	8398.66	12179.39	2.09	62.21	30.69	2365.05	2315.08	47.32	
11800.00	8399.59	12101.67	2.23	61.02	30.15	2364.20	2314.45	47.52	
11900.00	8399.29	12041.49	2.33	60.06	29.73	2364.96	2315.28	47.61	
12000.00	8397.92	11967.26	2.45	58.90	29.21	2367.08	2317.56	47.80	
12100.00	8396.13	11812.78	2.68	56.48	28.19	2368.47	2319.59	48.45	
12200.00	8396.16	11707.56	2.85	54.91	27.49	2368.78	2320.18	48.74	
12300.00	8396.41	11608.76	3.04	53.35	26.83	2368.92	2320.56	48.98	
12400.00	8396.35	11518.49	3.18	51.92	26.22	2369.34	2321.15	49.17	
12500.00	8395.87	11432.38	3.31	50.60	25.65	2370.28	2322.24	49.34	
12600.00	8394.87	11325.23	3.50	49.00	24.95	2371.67	2323.83	49.58	
12700.00	8394.90	11206.98	3.73	47.18	24.18	2372.13	2324.54	49.84	
12800.00	8395.59	11090.30	3.92	45.29	23.43	2371.99	2324.68	50.13	
12900.00	8396.49	10987.82	4.05	43.69	22.77	2371.48	2324.31	50.28	
13000.00	8397.50	10892.64	4.17	42.24	22.17	2370.79	2323.71	50.35	
13100.00	8397.43	10833.02	4.24	41.30	21.78	2371.28	2324.03	50.19	
13200.00	8396.23	10764.39	4.32	40.27	21.33	2373.33	2325.97	50.10	
13300.00	8393.43	10639.37	4.48	38.49	20.57	2376.14	2328.99	50.39	
13400.00	8394.35	10491.39	4.79	36.38	19.69	2375.95	2329.11	50.72	
13500.00	8394.83	10416.20	4.96	35.25	19.23	2376.14	2329.17	50.59	
13600.00	8394.64	10329.39	5.15	33.90	18.71	2377.15	2330.14	50.56	
13700.00	8394.53	10210.74	5.42	32.20	18.02	2378.12	2331.20	50.68	
13800.00	8395.47	10103.37	5.67	30.54	17.42	2378.18	2331.23	50.66	
13900.00	8395.59	10010.76	5.80	28.99	16.90	2378.63	2331.59	50.57	
14000.00	8395.32	9922.56	5.86	27.64	16.41	2379.24	2332.05	50.42	
14100.00	8393.96	9823.63	5.86	26.16	15.89	2380.62	2333.32	50.33	
14200.00	8393.19	9705.88	5.81	24.50	15.29	2381.05	2333.71	50.30	
14300.00	8392.84	9594.90	5.76	23.07	14.75	2381.19	2333.75	50.19	
14400.00	8393.39	9476.49	5.73	21.56	14.21	2380.61	2333.08	50.08	
14500.00	8393.77	9390.69	5.69	20.34	13.83	2379.99	2332.17	49.77	
14600.00	8393.70	9301.38	5.66	19.36	13.46	2379.89	2331.78	49.47	
14700.00	8394.75	9171.60	5.75	18.13	12.97	2379.38	2331.10	49.28	
14800.00	8396.70	9075.76	5.94	17.17	12.63	2378.17	2329.52	48.88	
14900.00	8397.78	9003.49	6.13	16.46	12.38	2377.83	2328.72	48.42	
15000.00	8398.91	8911.11	6.46	15.64	12.10	2378.25	2328.68	47.98	
15100.00	8399.99	8829.55	6.86	14.97	11.89	2379.27	2329.14	47.46	
15200.00	8400.43	8770.52	7.19	14.46	11.74	2381.54	2330.80	46.94	
15300.00	8400.08	8734.53	7.40	14.13	11.67	2386.01	2334.64	46.45	
15400.00	8399.23	8712.92	7.53	13.93	11.64	2393.57	2341.58	46.04	
15492.05	8398.20	8698.92	7.61	13.79	11.63	2403.58	2351.06	45.76	

Weatherford

Weatherford Drilling Services

GeoDec4 v2.1.0.0

Report Date:	April 01, 2015
Job Number:	
Customer:	Devon Energy
Well Name:	Paint 33 Fed 1H
API Number:	
Rig Name:	
Location:	Lea Co, NM Nad83 NME
Block:	
Engineer:	RWJ

NAD83 / New Mexico East (ftUS)	NAD83 (1986)
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1983 (1986)	Datum: North American Datum 1983 (1986)
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
EPSG: 2257	EPSG: 4269
North: 425187.62 US Survey Foot	Latitude: 32.167252 Degree
East: 742297.32 US Survey Foot	Longitude: -103.683875 Degree
Convergence: 0.35°	
Declination: 7.32°	
Total Correction: 6.97°	
Datum Transformation: none	

Geodetic Location WGS84

MSL Elevation	=	0 m
Latitude	=	32° 10' 02.11" N
Longitude	=	103° 41' 01.95" W

Magnetic Declination	=	7.32 deg	[True North Offset]		
Local Gravity	=	.9988 g	CheckSum	=	6563
Local Field Strength	=	48137 nT	Magnetic Vector X	=	23868 nT
Magnetic Dip	=	60.01 deg	Magnetic Vector Y	=	3068 nT
Magnetic Model	=	bggm2014.dat	Magnetic Vector Z	=	41691 nT
Run Date	=	June 15, 2015	Magnetic Vector H	=	24065 nT

Signed:_____ Date:_____