

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

HOBBS OCD

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

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.

MAR 08 2013

SUBMIT IN TRIPLICATE - Other instructions on reverse side. RECEIVED

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM100567
2. Name of Operator DEVON ENERGY PRODUCTION CO		6. If Indian, Allottee or Tribe Name
Contact: MELANIE A CRAWFORD Email: MELANIE.CRAWFORD@DVN.COM		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-552-4524	8. Well Name and No. RATTLESNAKE 13-12 FED COM 1H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 13 T26S R34E SESE 330FSL 330FEL		9. API Well No. 30-025-40912-00-X1
		10. Field and Pool, or Exploratory JABALINA Delaware SE-
		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 Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ 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 recompleat 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 recompleat 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.)

Per phone conversation with Wesley Ingram

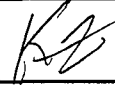
Devon Energy Production Co, LP respectfully requests to set a whipstock with a packer and cement with ~700' 15.6# Class H Cement (please see attached documents).

Thank you

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Electronic Submission #200829 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO LP, sent to the Hobbs Committed to AFMSS for processing by KURT SIMMONS on 03/06/2013 (13KMS1909SE)	
Name (Printed/Typed) MELANIE A CRAWFORD	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 03/06/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>WESLEY INGRAM</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>03/07/2013</u>
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  MAR 08 2013		

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 **

MAR 13 2013

Chm

**Rattlesnake 13-12 Fed Com 1H
30-025-40912
Devon Energy Production Company
March 7, 2013
Conditions of Approval**

- 1. Operator's new directional is deeper than what was approved with the original APD.**
- 2. Operator shall report depth at which they tag cement when they go back in the hole to drill the revised horizontal.**
- 3. Wording "per phone conversation with Wesley Ingram" is irrelevant to the request.**

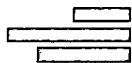
WWI 030713



Weatherford®

Drilling Services

Proposal



devon

RATTLESNAKE UNIT 13-12 FED 1H

LEA COUNTY, NM

WELL FILE: PLAN 1 ST01

MARCH 6, 2013

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



Rattlesnake Unit 13-12 Fed 1H Lea County, New Mexico

KB ELEV: 3257
GL ELEV: 3232

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8409.00	1.46	117.78	8404.85	-120.70	102.87	0.00	0.00	-122.09	
2	8453.45	0.83	104.85	8449.30	-121.05	103.68	1.52	195.92	-122.45	
3	8468.45	1.21	306.76	8464.29	-120.98	103.66	13.33	-167.00	-122.38	
4	8473.45	1.21	306.76	8469.29	-120.92	103.58	0.00	0.00	-122.32	
5	9152.55	68.85	345.40	8994.23	232.15	6.37	10.00	38.94	232.04	
6	9406.94	90.34	359.33	9040.12	478.18	-25.55	10.00	34.08	478.48	
7	9928.31	90.34	359.33	9037.00	999.50	-31.66	0.00	0.00	999.84	T1 1000 VS
8	9932.18	90.46	359.33	9036.97	1003.38	-31.71	3.00	1.96	1003.71	
9	10428.39	90.46	359.33	9033.00	1499.53	-37.49	0.00	0.00	1499.90	T2 1500 VS
10	10455.86	91.28	359.33	9032.58	1526.99	-37.81	3.00	0.08	1527.37	
11	10928.54	91.28	359.33	9022.00	1999.53	-43.31	0.00	0.00	1999.93	T3 2000 VS
12	10938.90	90.97	359.33	9021.80	2009.88	-43.43	3.00	-179.78	2010.28	
13	11928.73	90.97	359.33	9005.00	2999.50	-54.97	0.00	0.00	2999.97	T4 3000 VS
14	11955.78	90.16	359.33	9004.73	3026.55	-55.29	3.00	-180.00	3027.03	
15	15428.77	90.16	359.33	8995.00	6499.29	-95.78	0.00	0.00	6499.99	T5 6500 VS
16	15439.75	89.83	359.33	8995.00	6510.27	-95.91	3.00	179.99	6510.97	
17	18834.73	89.83	359.33	9005.00	9905.00	-135.49	0.00	0.00	9905.93	PBHL

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
T5 6500 VS	8995.00	6499.29	-95.78	384903.82	825437.01	Point
T4 3000 VS	9005.00	2999.50	-54.97	381404.03	825477.82	Point
PBHL	9005.00	9905.00	-135.49	388309.53	825397.30	Rectangle (9426x100)
T3 2000 VS	9022.00	1999.53	-43.31	380404.06	825489.48	Point
T2 1500 VS	9033.00	1499.53	-37.49	379904.06	825495.30	Point
T1 1000 VS	9037.00	999.50	-31.66	379404.03	825501.13	Point
LP 500VS	9040.00	499.33	-25.82	378903.86	825506.97	Point

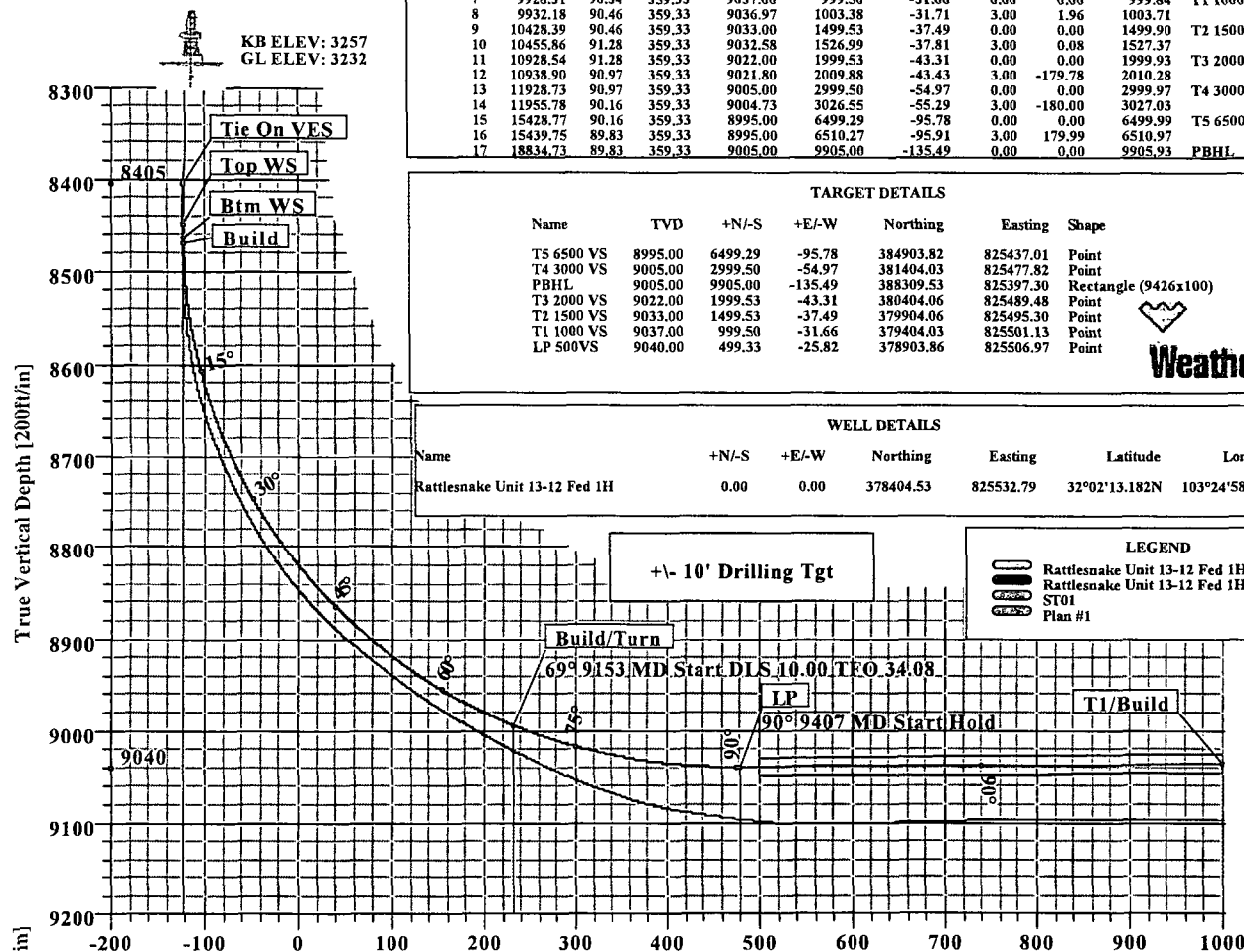
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WELL DETAILS

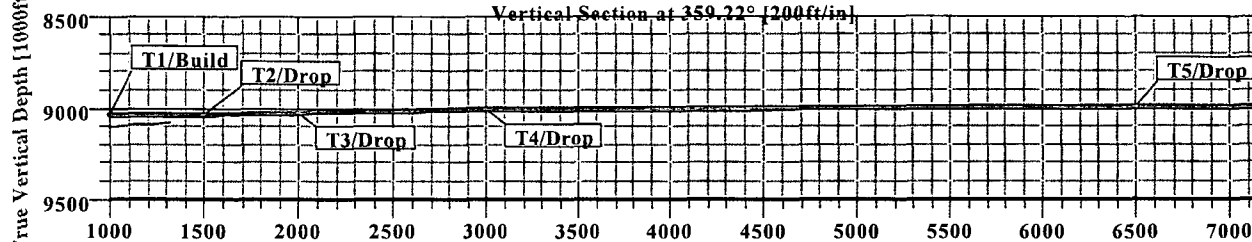
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Rattlesnake Unit 13-12 Fed 1H	0.00	0.00	378404.53	825532.79	32°02'13.182N	103°24'58.295W	N/A

LEGEND

- Rattlesnake Unit 13-12 Fed 1H, ST00, Gyro
- Rattlesnake Unit 13-12 Fed 1H (ST00)
- ST01
- Plan #1

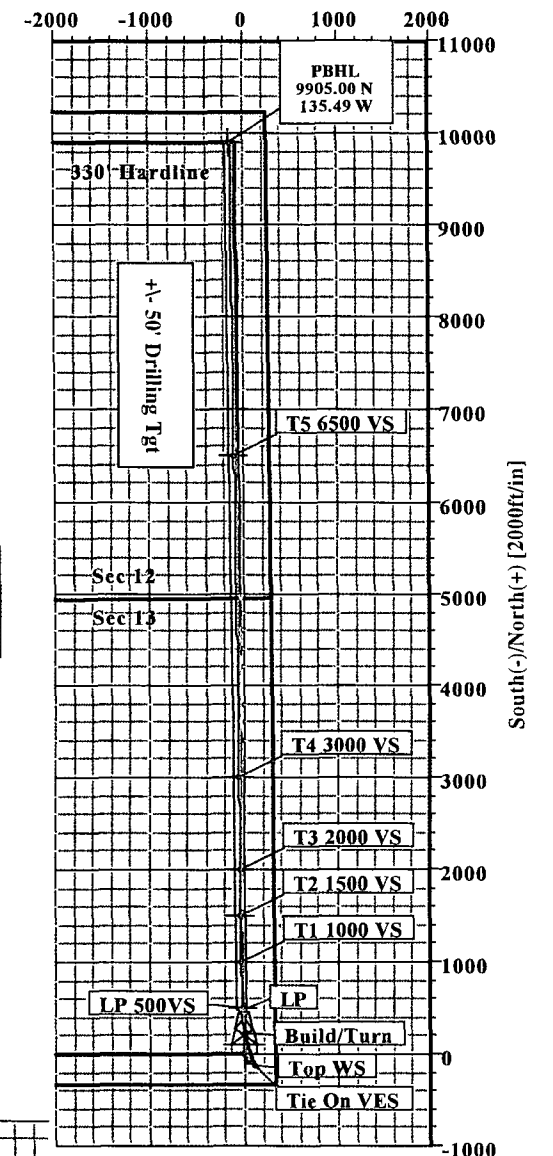


Vertical Section at 359.22° [2000ft/in]



Vertical Section at 359.22° [1000ft/in]

West(-)/East(+) [2000ft/in]



Plan: Plan #1 (Rattlesnake Unit 13-12 Fed 1H/ST01)

Created By: Russell W. Joyner

Date: 3/6/2013



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Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy Date: 3/6/2013 Time: 13:50:01 Page: 1
Field: Lea County, New Mexico (NAD 83) Co-ordinate(NE) Reference: Well: Rattlesnake Unit 13-12 Fed 1H
Site: Rattlesnake Unit 13-12 Fed 1H Vertical (TVD) Reference: SITE 3257.0
Well: Rattlesnake Unit 13-12 Fed 1H Section (VS) Reference: Well (0.00N,0.00E,359.22Azi)
Wellpath: ST01 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 3/6/2013
Principal: Yes Version: 1
Tied-to: User Defined

Site: Rattlesnake Unit 13-12 Fed 1H

Site Position: Northing: 378404.53 ft Latitude: 32 2 13.182 N
From: Map Easting: 825532.79 ft Longitude: 103 24 58.295 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3232.00 ft Grid Convergence: 0.49 deg

Well: Rattlesnake Unit 13-12 Fed 1H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 378404.53 ft Latitude: 32 2 13.182 N
+E/-W 0.00 ft Easting: 825532.79 ft Longitude: 103 24 58.295 W
Position Uncertainty: 0.00 ft

Wellpath: ST01 Drilled From: ST00
Current Datum: SITE Height 3257.00 ft Tie-on Depth: 8500.00 ft
Magnetic Data: 3/6/2013 Above System Datum: Mean Sea Level
Field Strength: 48373 nT Declination: 7.29 deg
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 60.00 deg
ft ft +E/-W Direction
deg
0.00 0.00 0.00 359.22

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
8409.00	1.46	117.78	8404.85	-120.70	102.87	0.00	0.00	0.00	0.00	
8453.45	0.83	104.85	8449.30	-121.05	103.68	1.52	-1.42	-29.08	195.92	
8468.45	1.21	306.76	8464.29	-120.98	103.66	13.33	2.50	-1053.94	-167.00	
8473.45	1.21	306.76	8469.29	-120.92	103.58	0.00	0.00	0.00	0.00	
9152.55	68.85	345.40	8994.23	232.15	6.37	10.00	9.96	5.69	38.94	
9406.94	90.34	359.33	9040.12	478.18	-25.55	10.00	8.45	5.48	34.08	
9928.31	90.34	359.33	9037.00	999.50	-31.66	0.00	0.00	0.00	0.00	T1 1000 VS
9932.18	90.46	359.33	9036.97	1003.38	-31.71	3.00	3.00	0.10	1.96	
10428.39	90.46	359.33	9033.00	1499.53	-37.49	0.00	0.00	0.00	0.00	T2 1500 VS
10455.86	91.28	359.33	9032.58	1526.99	-37.81	3.00	3.00	0.00	0.08	
10928.54	91.28	359.33	9022.00	1999.53	-43.31	0.00	0.00	0.00	0.00	T3 2000 VS
10938.90	90.97	359.33	9021.80	2009.88	-43.43	3.00	-3.00	-0.01	-179.78	
11928.73	90.97	359.33	9005.00	2999.50	-54.97	0.00	0.00	0.00	0.00	T4 3000 VS
11955.78	90.16	359.33	9004.73	3026.55	-55.29	3.00	-3.00	0.00	-180.00	
15428.77	90.16	359.33	8995.00	6499.29	-95.78	0.00	0.00	0.00	0.00	T5 6500 VS
15439.75	89.83	359.33	8995.00	6510.27	-95.91	3.00	-3.00	0.00	179.99	
18834.73	89.83	359.33	9005.00	9905.00	-135.49	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
8409.00	1.46	117.78	8404.85	-120.70	102.87	-122.09	0.00	378283.83	825635.66	Tie On VES
8453.45	0.83	104.85	8449.30	-121.05	103.68	-122.45	1.52	378283.48	825636.47	Top WS
8468.45	1.21	306.76	8464.29	-120.98	103.66	-122.38	13.33	378283.55	825636.45	Btm WS
8473.45	1.21	306.76	8469.29	-120.92	103.58	-122.32	0.00	378283.61	825636.37	Build
8500.00	3.67	333.80	8495.82	-119.99	102.98	-121.38	10.00	378284.54	825635.77	
8550.00	8.63	340.69	8545.52	-115.01	101.03	-116.37	10.00	378289.52	825633.82	
8600.00	13.61	342.56	8594.56	-105.85	98.03	-107.18	10.00	378298.68	825630.82	
8650.00	18.61	343.44	8642.58	-92.58	93.99	-93.85	10.00	378311.95	825626.78	
8700.00	23.60	343.96	8689.21	-75.30	88.94	-76.51	10.00	378329.23	825621.73	
8750.00	28.60	344.30	8734.10	-54.15	82.94	-55.27	10.00	378350.38	825615.73	
8800.00	33.60	344.55	8776.90	-29.28	76.01	-30.31	10.00	378375.25	825608.80	
8850.00	38.60	344.74	8817.29	-0.88	68.21	-1.80	10.00	378403.65	825601.00	



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Wft Plan Report X Y's.

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Company: Devon Energy Date: 3/6/2013 Time: 13:50:01 Page: 2
Field: Lea County, New Mexico (NAD 83) Co-ordinate(NE) Reference: Well: Rattlesnake Unit 13-12 Fed 1H
Site: Rattlesnake Unit 13-12 Fed 1H Vertical (TVD) Reference: SITE 3257.0
Well: Rattlesnake Unit 13-12 Fed 1H Section (VS) Reference: Well (0.00N,0.00E,359.22Azi)
Wellpath: ST01 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
8900.00	43.60	344.90	8854.95	30.84	59.61	30.02	10.00	378435.37	825592.40	
8950.00	48.60	345.03	8889.61	65.62	50.27	64.93	10.00	378470.15	825583.06	
9000.00	53.60	345.13	8921.00	103.20	40.26	102.65	10.00	378507.73	825573.05	
9050.00	58.60	345.23	8948.89	143.31	29.65	142.89	10.00	378547.84	825562.44	
9100.00	63.60	345.32	8973.05	185.63	18.53	185.36	10.00	378590.16	825551.32	
9152.55	68.85	345.40	8994.23	232.15	6.37	232.04	10.00	378636.68	825539.16	Build/Turn
9200.00	72.80	348.18	9009.81	275.76	-3.85	275.79	10.00	378680.29	825528.94	
9250.00	77.01	350.99	9022.83	323.23	-12.56	323.37	10.00	378727.76	825520.23	
9300.00	81.24	353.70	9032.27	371.88	-19.10	372.10	10.00	378776.41	825513.69	
9350.00	85.49	356.35	9038.05	421.34	-23.40	421.62	10.00	378825.87	825509.39	
9400.00	89.75	358.97	9040.12	471.24	-25.44	471.54	10.00	378875.77	825507.35	
9406.94	90.34	359.33	9040.12	478.18	-25.55	478.48	10.00	378882.71	825507.24	LP
9500.00	90.34	359.33	9039.56	571.23	-26.64	571.54	0.00	378975.76	825506.15	
9600.00	90.34	359.33	9038.96	671.22	-27.81	671.54	0.00	379075.75	825504.98	
9700.00	90.34	359.33	9038.36	771.21	-28.98	771.53	0.00	379175.74	825503.81	
9800.00	90.34	359.33	9037.77	871.20	-30.16	871.53	0.00	379275.73	825502.63	
9900.00	90.34	359.33	9037.17	971.19	-31.33	971.53	0.00	379375.72	825501.46	
9928.31	90.34	359.33	9037.00	999.50	-31.66	999.84	0.00	379404.03	825501.13	T1 1000 VS
9932.18	90.46	359.33	9036.97	1003.38	-31.71	1003.71	3.00	379407.91	825501.08	Hold
10000.00	90.46	359.33	9036.43	1071.18	-32.50	1071.53	0.00	379475.71	825500.29	
10100.00	90.46	359.33	9035.63	1171.17	-33.66	1171.52	0.00	379575.70	825499.13	
10200.00	90.46	359.33	9034.83	1271.16	-34.83	1271.52	0.00	379675.69	825497.96	
10300.00	90.46	359.33	9034.03	1371.15	-35.99	1371.52	0.00	379775.68	825496.80	
10400.00	90.46	359.33	9033.23	1471.14	-37.16	1471.51	0.00	379875.67	825495.63	
10428.39	90.46	359.33	9033.00	1499.53	-37.49	1499.90	0.00	379904.06	825495.30	T2 1500 VS
10455.86	91.28	359.33	9032.58	1526.99	-37.81	1527.37	3.00	379931.52	825494.98	Hold
10500.00	91.28	359.33	9031.59	1571.12	-38.32	1571.50	0.00	379975.65	825494.47	
10600.00	91.28	359.33	9029.36	1671.09	-39.49	1671.47	0.00	380075.62	825493.30	
10700.00	91.28	359.33	9027.12	1771.06	-40.65	1771.45	0.00	380175.59	825492.14	
10800.00	91.28	359.33	9024.88	1871.03	-41.81	1871.42	0.00	380275.56	825490.98	
10900.00	91.28	359.33	9022.64	1971.00	-42.98	1971.40	0.00	380375.53	825489.81	
10928.54	91.28	359.33	9022.00	1999.53	-43.31	1999.93	0.00	380404.06	825489.48	T3 2000 VS
10938.90	90.97	359.33	9021.80	2009.88	-43.43	2010.28	3.00	380414.41	825489.36	Hold
11000.00	90.97	359.33	9020.76	2070.97	-44.14	2071.38	0.00	380475.50	825488.65	
11100.00	90.97	359.33	9019.06	2170.95	-45.31	2171.36	0.00	380575.48	825487.48	
11200.00	90.97	359.33	9017.37	2270.93	-46.47	2271.35	0.00	380675.46	825486.32	
11300.00	90.97	359.33	9015.67	2370.91	-47.64	2371.34	0.00	380775.44	825485.15	
11400.00	90.97	359.33	9013.97	2470.89	-48.81	2471.32	0.00	380875.42	825483.98	
11500.00	90.97	359.33	9012.27	2570.86	-49.97	2571.31	0.00	380975.39	825482.82	
11600.00	90.97	359.33	9010.58	2670.84	-51.14	2671.29	0.00	381075.37	825481.65	
11700.00	90.97	359.33	9008.88	2770.82	-52.30	2771.28	0.00	381175.35	825480.49	
11800.00	90.97	359.33	9007.18	2870.80	-53.47	2871.26	0.00	381275.33	825479.32	
11900.00	90.97	359.33	9005.49	2970.78	-54.64	2971.25	0.00	381375.31	825478.15	
11928.73	90.97	359.33	9005.00	2999.50	-54.97	2999.97	0.00	381404.03	825477.82	T4 3000 VS
11955.78	90.16	359.33	9004.73	3026.55	-55.29	3027.03	3.00	381431.08	825477.50	Hold
12000.00	90.16	359.33	9004.61	3070.77	-55.80	3071.24	0.00	381475.30	825476.99	
12100.00	90.16	359.33	9004.33	3170.76	-56.97	3171.24	0.00	381575.29	825475.82	
12200.00	90.16	359.33	9004.05	3270.75	-58.13	3271.24	0.00	381675.28	825474.66	
12300.00	90.16	359.33	9003.77	3370.75	-59.30	3371.24	0.00	381775.28	825473.49	
12400.00	90.16	359.33	9003.49	3470.74	-60.46	3471.24	0.00	381875.27	825472.33	
12500.00	90.16	359.33	9003.21	3570.73	-61.63	3571.24	0.00	381975.26	825471.16	
12600.00	90.16	359.33	9002.93	3670.72	-62.80	3671.24	0.00	382075.25	825469.99	
12700.00	90.16	359.33	9002.65	3770.72	-63.96	3771.24	0.00	382175.25	825468.83	



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Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy Date: 3/6/2013 Time: 13:50:01 Page: 3
Field: Lea County, New Mexico (NAD 83) Co-ordinate(NE) Reference: Well: Rattlesnake Unit 13-12 Fed 1H
Site: Rattlesnake Unit 13-12 Fed 1H Vertical (TVD) Reference: SITE 3257.0
Well: Rattlesnake Unit 13-12 Fed 1H Section (VS) Reference: Well (0.00N,0.00E,359.22Azi)
Wellpath: ST01 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
12800.00	90.16	359.33	9002.37	3870.71	-65.13	3871.24	0.00	382275.24	825467.66	
12900.00	90.16	359.33	9002.09	3970.70	-66.29	3971.24	0.00	382375.23	825466.50	
13000.00	90.16	359.33	9001.81	4070.70	-67.46	4071.24	0.00	382475.23	825465.33	
13100.00	90.16	359.33	9001.53	4170.69	-68.63	4171.24	0.00	382575.22	825464.16	
13200.00	90.16	359.33	9001.25	4270.68	-69.79	4271.24	0.00	382675.21	825463.00	
13300.00	90.16	359.33	9000.97	4370.67	-70.96	4371.23	0.00	382775.20	825461.83	
13400.00	90.16	359.33	9000.69	4470.67	-72.12	4471.23	0.00	382875.20	825460.67	
13500.00	90.16	359.33	9000.41	4570.66	-73.29	4571.23	0.00	382975.19	825459.50	
13600.00	90.16	359.33	9000.12	4670.65	-74.46	4671.23	0.00	383075.18	825458.33	
13700.00	90.16	359.33	8999.84	4770.64	-75.62	4771.23	0.00	383175.17	825457.17	
13800.00	90.16	359.33	8999.56	4870.64	-76.79	4871.23	0.00	383275.17	825456.00	
13900.00	90.16	359.33	8999.28	4970.63	-77.95	4971.23	0.00	383375.16	825454.84	
14000.00	90.16	359.33	8999.00	5070.62	-79.12	5071.23	0.00	383475.15	825453.67	
14100.00	90.16	359.33	8998.72	5170.62	-80.29	5171.23	0.00	383575.15	825452.50	
14200.00	90.16	359.33	8998.44	5270.61	-81.45	5271.23	0.00	383675.14	825451.34	
14300.00	90.16	359.33	8998.16	5370.60	-82.62	5371.23	0.00	383775.13	825450.17	
14400.00	90.16	359.33	8997.88	5470.59	-83.78	5471.23	0.00	383875.12	825449.01	
14500.00	90.16	359.33	8997.60	5570.59	-84.95	5571.23	0.00	383975.12	825447.84	
14600.00	90.16	359.33	8997.32	5670.58	-86.12	5671.23	0.00	384075.11	825446.67	
14700.00	90.16	359.33	8997.04	5770.57	-87.28	5771.23	0.00	384175.10	825445.51	
14800.00	90.16	359.33	8996.76	5870.57	-88.45	5871.23	0.00	384275.10	825444.34	
14900.00	90.16	359.33	8996.48	5970.56	-89.61	5971.23	0.00	384375.09	825443.18	
15000.00	90.16	359.33	8996.20	6070.55	-90.78	6071.22	0.00	384475.08	825442.01	
15100.00	90.16	359.33	8995.92	6170.54	-91.95	6171.22	0.00	384575.07	825440.84	
15200.00	90.16	359.33	8995.64	6270.54	-93.11	6271.22	0.00	384675.07	825439.68	
15300.00	90.16	359.33	8995.36	6370.53	-94.28	6371.22	0.00	384775.06	825438.51	
15400.00	90.16	359.33	8995.08	6470.52	-95.44	6471.22	0.00	384875.05	825437.35	
15428.77	90.16	359.33	8995.00	6499.29	-95.78	6499.99	0.00	384903.82	825437.01	T5 6500 VS
15439.75	89.83	359.33	8995.00	6510.27	-95.91	6510.97	3.00	384914.80	825436.88	Hold
15500.00	89.83	359.33	8995.18	6570.52	-96.61	6571.22	0.00	384975.05	825436.18	
15600.00	89.83	359.33	8995.47	6670.51	-97.78	6671.22	0.00	385075.04	825435.01	
15700.00	89.83	359.33	8995.77	6770.50	-98.94	6771.22	0.00	385175.03	825433.85	
15800.00	89.83	359.33	8996.06	6870.49	-100.11	6871.22	0.00	385275.02	825432.68	
15900.00	89.83	359.33	8996.36	6970.49	-101.27	6971.22	0.00	385375.02	825431.52	
16000.00	89.83	359.33	8996.65	7070.48	-102.44	7071.22	0.00	385475.01	825430.35	
16100.00	89.83	359.33	8996.95	7170.47	-103.61	7171.22	0.00	385575.00	825429.18	
16200.00	89.83	359.33	8997.24	7270.46	-104.77	7271.22	0.00	385674.99	825428.02	
16300.00	89.83	359.33	8997.53	7370.46	-105.94	7371.22	0.00	385774.99	825426.85	
16400.00	89.83	359.33	8997.83	7470.45	-107.10	7471.22	0.00	385874.98	825425.69	
16500.00	89.83	359.33	8998.12	7570.44	-108.27	7571.22	0.00	385974.97	825424.52	
16600.00	89.83	359.33	8998.42	7670.44	-109.44	7671.21	0.00	386074.97	825423.35	
16700.00	89.83	359.33	8998.71	7770.43	-110.60	7771.21	0.00	386174.96	825422.19	
16800.00	89.83	359.33	8999.01	7870.42	-111.77	7871.21	0.00	386274.95	825421.02	
16900.00	89.83	359.33	8999.30	7970.41	-112.93	7971.21	0.00	386374.94	825419.86	
17000.00	89.83	359.33	8999.60	8070.41	-114.10	8071.21	0.00	386474.94	825418.69	
17100.00	89.83	359.33	8999.89	8170.40	-115.26	8171.21	0.00	386574.93	825417.53	
17200.00	89.83	359.33	9000.19	8270.39	-116.43	8271.21	0.00	386674.92	825416.36	
17300.00	89.83	359.33	9000.48	8370.39	-117.60	8371.21	0.00	386774.92	825415.19	
17400.00	89.83	359.33	9000.77	8470.38	-118.76	8471.21	0.00	386874.91	825414.03	
17500.00	89.83	359.33	9001.07	8570.37	-119.93	8571.21	0.00	386974.90	825412.86	
17600.00	89.83	359.33	9001.36	8670.36	-121.09	8671.21	0.00	387074.89	825411.70	
17700.00	89.83	359.33	9001.66	8770.36	-122.26	8771.21	0.00	387174.89	825410.53	



Weatherford

Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy Date: 3/6/2013 Time: 13:50:01 Page: 4
Field: Lea County, New Mexico (NAD 83) Co-ordinate(NE) Reference: Well: Rattlesnake Unit 13-12 Fed 1H
Site: Rattlesnake Unit 13-12 Fed 1H Vertical (TVD) Reference: SITE 3257.0
Well: Rattlesnake Unit 13-12 Fed 1H Section (VS) Reference: Well (0.00N,0.00E,359.22Azi)
Wellpath: ST01 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
17800.00	89.83	359.33	9001.95	8870.35	-123.43	8871.21	0.00	387274.88	825409.36	
17900.00	89.83	359.33	9002.25	8970.34	-124.59	8971.21	0.00	387374.87	825408.20	
18000.00	89.83	359.33	9002.54	9070.33	-125.76	9071.21	0.00	387474.86	825407.03	
18100.00	89.83	359.33	9002.84	9170.33	-126.92	9171.21	0.00	387574.86	825405.87	
18200.00	89.83	359.33	9003.13	9270.32	-128.09	9271.20	0.00	387674.85	825404.70	
18300.00	89.83	359.33	9003.43	9370.31	-129.26	9371.20	0.00	387774.84	825403.53	
18400.00	89.83	359.33	9003.72	9470.31	-130.42	9471.20	0.00	387874.84	825402.37	
18500.00	89.83	359.33	9004.01	9570.30	-131.59	9571.20	0.00	387974.83	825401.20	
18600.00	89.83	359.33	9004.31	9670.29	-132.75	9671.20	0.00	388074.82	825400.04	
18700.00	89.83	359.33	9004.60	9770.28	-133.92	9771.20	0.00	388174.81	825398.87	
18800.00	89.83	359.33	9004.90	9870.28	-135.09	9871.20	0.00	388274.81	825397.70	
18834.73	89.83	359.33	9005.00	9905.00	-135.49	9905.93	0.00	388309.53	825397.30	PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->				
							Deg	Min	Sec	Deg	Min	Sec		
T5 6500 VS		8995.00	6499.29	-95.78	384903.82	825437.01	32	3	17.500	N	103	24	58.767	W
T4 3000 VS		9005.00	2999.50	-54.97	381404.03	825477.82	32	2	42.866	N	103	24	58.638	W
PBHL -Rectangle (9426x100)		9005.00	9905.00	-135.49	388309.53	825397.30	32	3	51.203	N	103	24	58.892	W
T3 2000 VS		9022.00	1999.53	-43.31	380404.06	825489.48	32	2	32.971	N	103	24	58.601	W
T2 1500 VS		9033.00	1499.53	-37.49	379904.06	825495.30	32	2	28.023	N	103	24	58.583	W
T1 1000 VS		9037.00	999.50	-31.66	379404.03	825501.13	32	2	23.074	N	103	24	58.565	W
LP 500VS		9040.00	499.33	-25.82	378903.86	825506.97	32	2	18.125	N	103	24	58.546	W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
8409.00	8404.85	Tie On VES
8453.45	8449.30	Top WS
8468.45	8464.29	Btm WS
8473.45	8469.29	Build
9152.55	8994.23	Build/Turn
9406.94	9040.12	LP
9928.31	9037.00	T1/Build
9932.18	9036.97	Hold
10428.39	9033.00	T2/Drop
10455.86	9032.58	Hold
10928.54	9022.00	T3/Drop
10938.90	9021.80	Hold
11928.73	9005.00	T4/Drop
11955.78	9004.73	Hold
15428.77	8995.00	T5/Drop
15439.75	8995.00	Hold
18834.72	9005.00	PBHL



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy Date: 3/6/2013 Time: 13:34:53 Page: 1
Field: Lea County, New Mexico (NAD 83)
Reference Site: Rattlesnake Unit 13-12 Fed 1H Co-ordinate(NE) Reference: Well: Rattlesnake Unit 13-12 Fed 1H
Reference Well: Rattlesnake Unit 13-12 Fed 1H Vertical (TVD) Reference: SITE 3257.0
Reference Wellpath: ST01 Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria

Interpolation Method MD + Stations Interval: 100.00 ft

Depth Range: 8453.45 to 18834.71 ft

Maximum Radius 0000.00 ft

Reference: Plan: Plan #1

Error Model: ISCWSA Ellipse

Scan Method: Closest Approach 3D

Error Surface: Ellipse

Plan: Plan #1

Date Composed: 3/6/2013

Version: 1

Principal: Yes

Tied-to: From: Definitive Path

Summary

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Edge Distance Distance ft ft	Separation Factor	Warning
Rattlesnake Unit 13-	Rattlesnake Unit 13-	ST00 V1	8453.45	8453.45	0.00 -36.13	0.00	No Data

Site: Rattlesnake Unit 13-12 Fed 1H

Well: Rattlesnake Unit 13-12 Fed 1H

Wellpath: ST00 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Edge Distance Distance ft ft	Separation Factor	Warning
8453.45	8449.30	8453.45	8449.30	18.09	18.04	0.00	-121.04	103.64	0.00 -36.13	0.00	No Data
8468.45	8464.29	8468.45	8464.29	18.11	18.06	169.10	-121.07	103.82	0.23 -35.87	0.01	Level 1
8473.45	8469.29	8473.45	8469.29	18.11	18.06	168.94	-121.07	103.88	0.39 -35.72	0.01	Level 1
8500.00	8495.82	8499.97	8495.82	18.11	18.10	158.16	-121.01	104.08	1.54 -34.52	0.04	Level 1
8550.00	8545.52	8550.17	8545.94	18.11	18.10	170.77	-118.83	103.07	4.38 -31.43	0.12	Level 1
8553.45	8548.93	8553.65	8549.40	18.11	18.10	171.81	-118.53	102.89	4.56 -31.23	0.13	Level 1
8600.00	8594.56	8600.61	8595.84	18.11	18.10	186.13	-112.61	99.32	7.02 -28.41	0.20	Level 1
8650.00	8642.58	8651.43	8645.07	18.11	18.10	197.32	-101.45	93.71	9.22 -25.73	0.26	Level 1
8653.45	8645.85	8654.95	8648.42	18.12	18.10	197.97	-100.49	93.28	9.35 -25.57	0.27	Level 1
8700.00	8689.21	8702.24	8692.85	18.13	18.12	204.80	-85.56	87.03	11.05 -23.46	0.32	Level 1
8750.00	8734.10	8752.91	8738.74	18.16	18.14	213.11	-65.82	78.66	13.26 -21.07	0.39	Level 1
8753.45	8737.12	8756.40	8741.83	18.16	18.14	213.77	-64.34	77.99	13.46 -20.88	0.39	Level 1
8800.00	8776.90	8803.41	8782.55	18.20	18.18	222.44	-43.14	67.94	16.99 -17.52	0.49	Level 1
8850.00	8817.29	8854.47	8824.33	18.26	18.24	230.48	-16.72	55.27	21.62 -13.16	0.62	Level 1
8853.45	8819.98	8858.02	8827.13	18.27	18.25	230.96	-14.73	54.36	21.92 -12.88	0.63	Level 1
8900.00	8854.95	8906.55	8863.67	18.35	18.33	236.42	14.71	42.08	25.34 -9.68	0.72	Level 1
8950.00	8889.61	8959.13	8899.67	18.48	18.45	239.72	51.16	30.35	26.56 -8.60	0.76	Level 1
8953.45	8891.89	8962.75	8902.03	18.49	18.46	239.78	53.81	29.63	26.55 -8.60	0.76	Level 1
9000.00	8921.00	9010.56	8932.11	18.64	18.61	238.51	89.89	20.74	26.08 -8.93	0.74	Level 1
9050.00	8948.88	9061.76	8962.00	18.84	18.80	233.44	130.43	11.66	25.69 -8.60	0.75	Level 1
9053.45	8950.67	9065.29	8963.97	18.86	18.82	232.95	133.30	11.04	25.68 -8.53	0.75	Level 1
9100.00	8973.04	9113.22	8989.59	19.09	19.03	223.82	173.08	3.39	25.67 -6.77	0.79	Level 1
9152.55	8994.22	9167.06	9015.74	19.40	19.30	208.39	219.61	-3.56	26.79 -2.13	0.93	Level 1
9153.45	8994.55	9167.99	9016.16	19.41	19.31	208.07	220.43	-3.66	26.83 -2.02	0.93	Level 1
9200.00	9009.81	9215.52	9037.06	19.72	19.56	191.94	262.93	-7.59	30.35 4.55	1.18	Level 2
9250.00	9022.83	9266.73	9057.34	20.08	19.88	178.14	309.91	-9.29	37.14 12.46	1.50	
9253.45	9023.60	9270.40	9058.66	20.11	19.90	177.47	313.33	-9.42	37.66 13.00	1.53	
9300.00	9032.27	9319.15	9074.31	20.47	20.27	172.40	359.42	-11.92	44.44 19.77	1.80	
9350.00	9038.05	9374.63	9087.37	20.88	20.74	171.88	413.16	-15.80	50.58 26.01	2.06	
9353.45	9038.31	9378.51	9088.03	20.91	20.77	171.96	416.98	-16.09	50.89 26.34	2.07	
9400.00	9040.12	9426.91	9094.70	21.29	21.18	172.94	464.84	-18.60	55.38 30.72	2.25	
9406.96	9040.12	9433.92	9095.54	21.35	21.24	173.13	471.80	-18.84	56.20 31.51	2.28	
9453.45	9039.84	9482.63	9100.56	21.82	21.68	174.10	520.24	-19.80	61.21 36.37	2.46	
9500.00	9039.56	9534.81	9101.79	22.29	22.20	173.88	572.39	-20.01	62.60 37.43	2.49	
9553.45	9039.24	9588.99	9100.50	22.87	22.79	173.48	626.55	-20.32	61.68 36.15	2.42	
9600.00	9038.96	9635.56	9098.99	23.38	23.29	173.29	673.09	-20.80	60.46 34.63	2.34	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy Date: 3/6/2013 Time: 13:34:53 Page: 2
Field: Lea County, New Mexico (NAD 83)
Reference Site: Rattlesnake Unit 13-12 Fed 1H Co-ordinate(NE) Reference: Well: Rattlesnake Unit 13-12 Fed 1H
Reference Well: Rattlesnake Unit 13-12 Fed 1H Vertical (TVD) Reference: SITE 3257.0
Reference Wellpath: ST00 V1 Db: Sybase

Site: Rattlesnake Unit 13-12 Fed 1H

Well: Rattlesnake Unit 13-12 Fed 1H

Wellpath: ST00 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
9653.45	9038.64	9687.98	9097.90	24.01	23.84	173.30	725.50	-21.51	59.67	33.52	2.28	
9700.00	9038.37	9733.96	9097.64	24.56	24.33	173.49	771.47	-22.24	59.66	33.24	2.26	
9753.45	9038.05	9787.20	9097.61	25.24	24.88	173.70	824.70	-23.04	59.92	33.15	2.24	
9800.00	9037.77	9833.88	9097.66	25.82	25.41	173.84	871.37	-23.70	60.24	33.15	2.22	
9853.45	9037.45	9887.75	9097.42	26.53	26.06	174.00	925.24	-24.49	60.30	32.80	2.19	
9900.00	9037.17	9934.64	9096.90	27.14	26.66	174.13	972.12	-25.20	60.06	32.20	2.16	
9928.29	9037.00	9963.13	9096.47	27.53	27.04	174.22	1000.61	-25.65	59.78	31.70	2.13	
9932.16	9036.97	9967.03	9096.40	27.58	27.10	174.23	1004.50	-25.71	59.74	31.63	2.12	
9953.45	9036.80	9988.46	9096.00	27.88	27.38	174.30	1025.93	-26.06	59.51	31.22	2.10	
10000.00	9036.43	10036.13	9094.63	28.52	28.02	174.32	1073.57	-26.73	58.54	29.83	2.04	
10053.45	9036.00	10090.93	9091.75	29.28	28.77	173.78	1128.29	-27.09	56.19	26.89	1.92	
10100.00	9035.63	10137.86	9088.49	29.95	29.43	172.99	1175.11	-27.20	53.40	23.53	1.79	
10153.45	9035.20	10191.51	9084.29	30.73	30.19	171.87	1228.60	-27.31	49.74	19.12	1.62	
10200.00	9034.83	10237.51	9080.82	31.42	30.82	170.85	1274.47	-27.46	46.70	15.39	1.49	Level 3
10253.45	9034.40	10278.00	9078.13	32.22	31.37	170.02	1314.86	-27.66	45.48	13.44	1.42	Level 3
10300.00	9034.03	10278.00	9078.13	32.92	31.37	170.02	1314.86	-27.66	72.01	39.57	2.22	
10353.45	9033.60	10278.00	9078.13	33.74	31.37	170.02	1314.86	-27.66	118.78	85.84	3.61	
10400.00	9033.23	10278.00	9078.13	34.46	31.37	170.02	1314.86	-27.66	162.90	129.47	4.87	
10428.37	9033.00	10278.00	9078.13	34.90	31.37	170.02	1314.86	-27.66	190.36	156.60	5.64	
10453.45	9032.63	10278.00	9078.13	35.29	31.37	169.40	1314.86	-27.66	214.86	180.68	6.29	
10455.84	9032.58	10278.00	9078.13	35.33	31.37	169.33	1314.86	-27.66	217.21	182.99	6.35	
10500.00	9031.59	10278.00	9078.13	36.02	31.37	169.33	1314.86	-27.66	260.68	225.94	7.50	
10553.45	9030.40	10278.00	9078.13	36.87	31.37	169.33	1314.86	-27.66	313.57	278.13	8.85	
10600.00	9029.36	10278.00	9078.13	37.60	31.37	169.33	1314.86	-27.66	359.76	323.64	9.96	
10653.45	9028.16	10278.00	9078.13	38.46	31.37	169.33	1314.86	-27.66	412.90	375.91	11.16	
10700.00	9027.12	10278.00	9078.13	39.21	31.37	169.33	1314.86	-27.66	459.24	421.39	12.13	
10753.45	9025.92	10278.00	9078.13	40.08	31.37	169.33	1314.86	-27.66	512.49	473.53	13.15	
10800.00	9024.88	10278.00	9078.13	40.84	31.37	169.33	1314.86	-27.66	558.90	518.84	13.95	
10853.45	9023.68	10278.00	9078.13	41.71	31.37	169.33	1314.86	-27.66	612.22	570.72	14.75	
10900.00	9022.64	10278.00	9078.13	42.48	31.37	169.33	1314.86	-27.66	658.67	615.77	15.36	
10928.53	9022.00	10278.00	9078.13	42.95	31.37	169.33	1314.86	-27.66	687.14	643.32	15.68	
10938.88	9021.80	10278.00	9078.13	43.10	31.37	170.23	1314.86	-27.66	697.48	653.50	15.86	
10953.45	9021.55	10278.00	9078.13	43.32	31.37	170.23	1314.86	-27.66	712.01	667.48	15.99	
11000.00	9020.76	10278.00	9078.13	44.02	31.37	170.23	1314.86	-27.66	758.48	712.10	16.35	
11053.45	9019.85	10278.00	9078.13	44.91	31.37	170.23	1314.86	-27.66	811.84	763.26	16.71	
11100.00	9019.06	10278.00	9078.13	45.69	31.37	170.23	1314.86	-27.66	858.32	807.94	17.04	
11153.45	9018.16	10278.00	9078.13	46.58	31.37	170.23	1314.86	-27.66	911.70	859.65	17.52	
11200.00	9017.37	10278.00	9078.13	47.37	31.37	170.23	1314.86	-27.66	958.19	905.24	18.10	
11253.45	9016.46	10278.00	9078.13	48.27	31.37	170.23	1314.86	-27.66	1011.59	958.33	18.99	
11300.00	9015.67	10278.00	9078.13	49.06	31.37	170.23	1314.86	-27.66	1058.09	1005.12	19.97	
11353.45	9014.76	10278.00	9078.13	49.97	31.37	170.23	1314.86	-27.66	1111.50	1059.27	21.28	
11400.00	9013.97	10278.00	9078.13	50.76	31.37	170.23	1314.86	-27.66	1158.01	1106.60	22.52	
11453.45	9013.06	10278.00	9078.13	51.67	31.37	170.23	1314.86	-27.66	1211.42	1160.98	24.01	
11500.00	9012.27	10278.00	9078.13	52.46	31.37	170.23	1314.86	-27.66	1257.94	1208.27	25.33	
11553.45	9011.37	10278.00	9078.13	53.38	31.37	170.23	1314.86	-27.66	1311.36	1262.47	26.82	
11600.00	9010.58	10278.00	9078.13	54.18	31.37	170.23	1314.86	-27.66	1357.88	1309.55	28.10	
11653.45	9009.67	10278.00	9078.13	55.10	31.37	170.23	1314.86	-27.66	1411.30	1363.49	29.51	
11700.00	9008.88	10278.00	9078.13	55.90	31.37	170.23	1314.86	-27.66	1457.83	1410.36	30.71	
11753.45	9007.97	10278.00	9078.13	56.83	31.37	170.23	1314.86	-27.66	1511.25	1464.08	32.03	
11800.00	9007.18	10278.00	9078.13	57.63	31.37	170.23	1314.86	-27.66	1557.78	1510.79	33.15	
11853.45	9006.28	10278.00	9078.13	58.56	31.37	170.23	1314.86	-27.66	1611.21	1564.35	34.38	



Weatherford Anticollision Report



Company: Devon Energy Date: 3/6/2013 Time: 13:34:53 Page: 3
Field: Lea County, New Mexico (NAD 83)
Reference Site: Rattlesnake Unit 13-12 Fed 1H Co-ordinate(NE) Reference: Well: Rattlesnake Unit 13-12 Fed 1H
Reference Well: Rattlesnake Unit 13-12 Fed 1H Vertical (TVD) Reference: SITE 3257.0
Reference Wellpath: ST01 Db: Sybase

Site: Rattlesnake Unit 13-12 Fed 1H
Well: Rattlesnake Unit 13-12 Fed 1H
Wellpath: ST00 V1

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS	North	East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
11900.00	9005.49	10278.00	9078.13	59.37	31.37	170.23	1314.86	-27.66	1657.74	1610.94	35.42	
11928.71	9005.00	10278.00	9078.13	59.87	31.37	170.23	1314.86	-27.66	1686.45	1639.65	36.04	
11953.45	9004.74	10278.00	9078.13	60.26	31.37	173.42	1314.86	-27.66	1711.17	1665.32	37.32	
11955.77	9004.73	10278.00	9078.13	60.29	31.37	173.62	1314.86	-27.66	1713.49	1667.69	37.42	
12000.00	9004.61	10278.00	9078.13	60.99	31.37	173.62	1314.86	-27.66	1757.68	1711.98	38.46	
12053.45	9004.46	10278.00	9078.13	61.92	31.37	173.62	1314.86	-27.66	1811.09	1765.42	39.66	
12100.00	9004.33	10278.00	9078.13	62.73	31.37	173.62	1314.86	-27.66	1857.61	1811.92	40.66	
12153.45	9004.18	10278.00	9078.13	63.67	31.37	173.62	1314.86	-27.66	1911.02	1865.27	41.77	
12200.00	9004.05	10278.00	9078.13	64.48	31.37	173.62	1314.86	-27.66	1957.54	1911.70	42.70	
12253.45	9003.90	10278.00	9078.13	65.42	31.37	173.62	1314.86	-27.66	2010.96	1964.97	43.73	
12300.00	9003.77	10278.00	9078.13	66.24	31.37	173.62	1314.86	-27.66	2057.49	2011.35	44.60	
12353.45	9003.62	10278.00	9078.13	67.18	31.37	173.62	1314.86	-27.66	2110.91	2064.58	45.56	
12400.00	9003.49	10278.00	9078.13	67.99	31.37	173.62	1314.86	-27.66	2157.43	2110.92	46.38	
12453.45	9003.34	10278.00	9078.13	68.94	31.37	173.62	1314.86	-27.66	2210.86	2164.11	47.30	
12500.00	9003.21	10278.00	9078.13	69.76	31.37	173.62	1314.86	-27.66	2257.38	2210.43	48.07	
12553.45	9003.06	10278.00	9078.13	70.70	31.37	173.62	1314.86	-27.66	2310.81	2263.59	48.94	
12600.00	9002.93	10278.00	9078.13	71.52	31.37	173.62	1314.86	-27.66	2357.34	2309.89	49.68	
12653.45	9002.78	10278.00	9078.13	72.46	31.37	173.62	1314.86	-27.66	2410.77	2363.03	50.51	
12700.00	9002.65	10278.00	9078.13	73.29	31.37	173.62	1314.86	-27.66	2457.30	2409.31	51.21	
12753.45	9002.50	10278.00	9078.13	74.23	31.37	173.62	1314.86	-27.66	2510.73	2462.44	52.00	
12800.00	9002.37	10278.00	9078.13	75.06	31.37	173.62	1314.86	-27.66	2557.26	2508.71	52.68	
12853.45	9002.22	10278.00	9078.13	76.01	31.37	173.62	1314.86	-27.66	2610.69	2561.83	53.43	
12900.00	9002.09	10278.00	9078.13	76.83	31.37	173.62	1314.86	-27.66	2657.22	2608.09	54.08	
12953.45	9001.94	10278.00	9078.13	77.78	31.37	173.62	1314.86	-27.66	2710.66	2661.20	54.81	
13000.00	9001.81	10278.00	9078.13	78.61	31.37	173.62	1314.86	-27.66	2757.19	2707.45	55.43	
13053.45	9001.66	10278.00	9078.13	79.56	31.37	173.62	1314.86	-27.66	2810.62	2760.55	56.13	
13100.00	9001.53	10278.00	9078.13	80.38	31.37	173.62	1314.86	-27.66	2857.16	2806.80	56.73	
13153.45	9001.38	10278.00	9078.13	81.34	31.37	173.62	1314.86	-27.66	2910.60	2859.89	57.41	
13200.00	9001.25	10278.00	9078.13	82.16	31.37	173.62	1314.86	-27.66	2957.13	2906.13	57.98	
13253.45	9001.10	10278.00	9078.13	83.12	31.37	173.62	1314.86	-27.66	3010.57	2959.23	58.64	
13300.00	9000.97	10278.00	9078.13	83.95	31.37	173.62	1314.86	-27.66	3057.11	3005.46	59.19	
13353.45	9000.82	10278.00	9078.13	84.90	31.37	173.62	1314.86	-27.66	3110.54	3058.55	59.82	
13400.00	9000.69	10278.00	9078.13	85.73	31.37	173.62	1314.86	-27.66	3157.08	3104.78	60.36	
13453.45	9000.54	10278.00	9078.13	86.68	31.37	173.62	1314.86	-27.66	3210.52	3157.86	60.97	
13500.00	9000.41	10278.00	9078.13	87.52	31.37	173.62	1314.86	-27.66	3257.06	3204.09	61.49	
13553.45	9000.26	10278.00	9078.13	88.47	31.37	173.62	1314.86	-27.66	3310.50	3257.17	62.08	
13600.00	9000.12	10278.00	9078.13	89.30	31.37	173.62	1314.86	-27.66	3357.04	3303.40	62.59	
13653.45	8999.98	10278.00	9078.13	90.26	31.37	173.62	1314.86	-27.66	3410.48	3356.48	63.16	
13700.00	8999.84	10278.00	9078.13	91.09	31.37	173.62	1314.86	-27.66	3457.02	3402.70	63.65	
13753.45	8999.69	10278.00	9078.13	92.05	31.37	173.62	1314.86	-27.66	3510.46	3455.77	64.20	
13800.00	8999.56	10278.00	9078.13	92.88	31.37	173.62	1314.86	-27.66	3557.00	3502.00	64.67	
13853.45	8999.41	10278.00	9078.13	93.84	31.37	173.62	1314.86	-27.66	3610.44	3555.07	65.21	
13900.00	8999.28	10278.00	9078.13	94.67	31.37	173.62	1314.86	-27.66	3656.98	3601.29	65.67	
13953.45	8999.13	10278.00	9078.13	95.63	31.37	173.62	1314.86	-27.66	3710.42	3654.36	66.19	
14000.00	8999.00	10278.00	9078.13	96.47	31.37	173.62	1314.86	-27.66	3756.96	3700.58	66.63	
14053.45	8998.85	10278.00	9078.13	97.43	31.37	173.62	1314.86	-27.66	3810.40	3753.65	67.14	
14100.00	8998.72	10278.00	9078.13	98.26	31.37	173.62	1314.86	-27.66	3856.94	3799.87	67.57	
14153.45	8998.57	10278.00	9078.13	99.22	31.37	173.62	1314.86	-27.66	3910.39	3852.93	68.06	
14200.00	8998.44	10278.00	9078.13	100.06	31.37	173.62	1314.86	-27.66	3956.93	3899.15	68.48	
14253.45	8998.29	10278.00	9078.13	101.02	31.37	173.62	1314.86	-27.66	4010.37	3952.22	68.96	
14300.00	8998.16	10278.00	9078.13	101.85	31.37	173.62	1314.86	-27.66	4056.91	3998.43	69.37	



Weatherford Anticollision Report

**Weatherford®**

Company: Devon Energy Date: 3/6/2013 Time: 13:34:53 Page: 4
Field: Lea County, New Mexico (NAD 83)
Reference Site: Rattlesnake Unit 13-12 Fed 1H Co-ordinate(NE) Reference: Well: Rattlesnake Unit 13-12 Fed 1H
Reference Well: Rattlesnake Unit 13-12 Fed 1H Vertical (TVD) Reference: SITE 3257.0
Reference Wellpath: ST01 Db: Sybase

Site: Rattlesnake Unit 13-12 Fed 1H
Well: Rattlesnake Unit 13-12 Fed 1H
Wellpath: ST00 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
14353.45	8998.01	10278.00	9078.13	102.82	31.37	173.62	1314.86	-27.66	4110.36	4051.50	69.83	
14400.00	8997.88	10278.00	9078.13	103.65	31.37	173.62	1314.86	-27.66	4156.90	4097.71	70.23	
14453.45	8997.73	10278.00	9078.13	104.61	31.37	173.62	1314.86	-27.66	4210.34	4150.78	70.68	
14500.00	8997.60	10278.00	9078.13	105.45	31.37	173.62	1314.86	-27.66	4256.89	4196.99	71.07	
14553.45	8997.45	10278.00	9078.13	106.41	31.37	173.62	1314.86	-27.66	4310.33	4250.05	71.51	
14600.00	8997.32	10278.00	9078.13	107.25	31.37	173.62	1314.86	-27.66	4356.87	4296.27	71.89	
14653.45	8997.17	10278.00	9078.13	108.21	31.37	173.62	1314.86	-27.66	4410.32	4349.33	72.31	
14700.00	8997.04	10278.00	9078.13	109.05	31.37	173.62	1314.86	-27.66	4456.86	4395.54	72.68	
14753.45	8996.89	10278.00	9078.13	110.01	31.37	173.62	1314.86	-27.66	4510.31	4448.60	73.10	
14800.00	8996.76	10278.00	9078.13	110.85	31.37	173.62	1314.86	-27.66	4556.85	4494.81	73.45	
14853.45	8996.61	10278.00	9078.13	111.82	31.37	173.62	1314.86	-27.66	4610.29	4547.87	73.86	
14900.00	8996.48	10278.00	9078.13	112.65	31.37	173.62	1314.86	-27.66	4656.84	4594.09	74.21	
14953.45	8996.33	10278.00	9078.13	113.62	31.37	173.62	1314.86	-27.66	4710.28	4647.15	74.60	
15000.00	8996.20	10278.00	9078.13	114.46	31.37	173.62	1314.86	-27.66	4756.83	4693.36	74.94	
15053.45	8996.05	10278.00	9078.13	115.42	31.37	173.62	1314.86	-27.66	4810.27	4746.41	75.33	
15100.00	8995.92	10278.00	9078.13	116.26	31.37	173.62	1314.86	-27.66	4856.82	4792.62	75.66	
15153.45	8995.77	10278.00	9078.13	117.23	31.37	173.62	1314.86	-27.66	4910.26	4845.68	76.03	
15200.00	8995.64	10278.00	9078.13	118.07	31.37	173.62	1314.86	-27.66	4956.81	4891.89	76.36	
15253.45	8995.49	10278.00	9078.13	119.03	31.37	173.62	1314.86	-27.66	5010.25	4944.95	76.72	
15300.00	8995.36	10278.00	9078.13	119.87	31.37	173.62	1314.86	-27.66	5056.80	4991.16	77.04	
15353.45	8995.21	10278.00	9078.13	120.84	31.37	173.62	1314.86	-27.66	5110.24	5044.22	77.40	
15400.00	8995.08	10278.00	9078.13	121.68	31.37	173.62	1314.86	-27.66	5156.79	5090.43	77.71	
15428.76	8995.00	10278.00	9078.13	122.20	31.37	173.62	1314.86	-27.66	5185.54	5118.97	77.89	
15439.73	8995.00	10278.00	9078.13	122.37	31.37	175.54	1314.86	-27.66	5196.52	5130.66	78.91	
15453.45	8995.04	10278.00	9078.13	122.60	31.37	175.54	1314.86	-27.66	5210.23	5144.28	79.00	
15500.00	8995.18	10278.00	9078.13	123.35	31.37	175.54	1314.86	-27.66	5256.77	5190.49	79.31	
15553.45	8995.34	10278.00	9078.13	124.32	31.37	175.54	1314.86	-27.66	5310.22	5243.55	79.66	
15600.00	8995.47	10278.00	9078.13	125.16	31.37	175.54	1314.86	-27.66	5356.76	5289.76	79.96	
15653.45	8995.63	10278.00	9078.13	126.13	31.37	175.54	1314.86	-27.66	5410.20	5342.82	80.30	
15700.00	8995.77	10278.00	9078.13	126.97	31.37	175.54	1314.86	-27.66	5456.74	5389.03	80.59	
15753.45	8995.92	10278.00	9078.13	127.93	31.37	175.54	1314.86	-27.66	5510.18	5442.09	80.92	
15800.00	8996.06	10278.00	9078.13	128.78	31.37	175.54	1314.86	-27.66	5556.72	5488.30	81.21	
15853.45	8996.22	10278.00	9078.13	129.74	31.37	175.54	1314.86	-27.66	5610.17	5541.36	81.53	
15900.00	8996.36	10278.00	9078.13	130.59	31.37	175.54	1314.86	-27.66	5656.71	5587.57	81.81	
15953.45	8996.51	10278.00	9078.13	131.55	31.37	175.54	1314.86	-27.66	5710.15	5640.63	82.13	
16000.00	8996.65	10278.00	9078.13	132.39	31.37	175.54	1314.86	-27.66	5756.69	5686.84	82.41	
16053.45	8996.81	10278.00	9078.13	133.36	31.37	175.54	1314.86	-27.66	5810.14	5739.89	82.72	
16100.00	8996.95	10278.00	9078.13	134.20	31.37	175.54	1314.86	-27.66	5856.68	5786.10	82.98	
16153.45	8997.10	10278.00	9078.13	135.17	31.37	175.54	1314.86	-27.66	5910.12	5839.16	83.29	
16200.00	8997.24	10278.00	9078.13	136.01	31.37	175.54	1314.86	-27.66	5956.67	5885.37	83.55	
16253.45	8997.40	10278.00	9078.13	136.98	31.37	175.54	1314.86	-27.66	6010.11	5938.43	83.84	
16300.00	8997.53	10278.00	9078.13	137.82	31.37	175.54	1314.86	-27.66	6056.65	5984.63	84.10	
16353.45	8997.69	10278.00	9078.13	138.79	31.37	175.54	1314.86	-27.66	6110.09	6037.69	84.39	
16400.00	8997.83	10278.00	9078.13	139.64	31.37	175.54	1314.86	-27.66	6156.64	6083.90	84.64	
16453.45	8997.99	10278.00	9078.13	140.60	31.37	175.54	1314.86	-27.66	6210.08	6136.96	84.93	
16500.00	8998.12	10278.00	9078.13	141.45	31.37	175.54	1314.86	-27.66	6256.63	6183.17	85.17	
16553.45	8998.28	10278.00	9078.13	142.41	31.37	175.54	1314.86	-27.66	6310.07	6236.22	85.45	
16600.00	8998.42	10278.00	9078.13	143.26	31.37	175.54	1314.86	-27.66	6356.61	6282.43	85.69	
16653.45	8998.58	10278.00	9078.13	144.23	31.37	175.54	1314.86	-27.66	6410.06	6335.49	85.96	
16700.00	8998.71	10278.00	9078.13	145.07	31.37	175.54	1314.86	-27.66	6456.60	6381.70	86.20	
16753.45	8998.87	10278.00	9078.13	146.04	31.37	175.54	1314.86	-27.66	6510.05	6434.75	86.46	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy Date: 3/6/2013 Time: 13:34:53 Page: 5
Field: Lea County, New Mexico (NAD 83)
Reference Site: Rattlesnake Unit 13-12 Fed 1H Co-ordinate(NE) Reference: Well: Rattlesnake Unit 13-12 Fed 1H
Reference Well: Rattlesnake Unit 13-12 Fed 1H Vertical (TVD) Reference: SITE 3257.0
Reference Wellpath: ST01 Db: Sybase

Site: Rattlesnake Unit 13-12 Fed 1H
Well: Rattlesnake Unit 13-12 Fed 1H
Wellpath: ST00 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
16800.00	8999.01	10278.00	9078.13	146.88	31.37	175.54	1314.86	-27.66	6556.59	6480.96	86.69	
16853.45	8999.16	10278.00	9078.13	147.85	31.37	175.54	1314.86	-27.66	6610.03	6534.02	86.95	
16900.00	8999.30	10278.00	9078.13	148.70	31.37	175.54	1314.86	-27.66	6656.58	6580.22	87.18	
16953.45	8999.46	10278.00	9078.13	149.66	31.37	175.54	1314.86	-27.66	6710.02	6633.28	87.43	
17000.00	8999.60	10278.00	9078.13	150.51	31.37	175.54	1314.86	-27.66	6756.57	6679.49	87.66	
17053.45	8999.75	10278.00	9078.13	151.48	31.37	175.54	1314.86	-27.66	6810.01	6732.54	87.91	
17100.00	8999.89	10278.00	9078.13	152.32	31.37	175.54	1314.86	-27.66	6856.56	6778.75	88.12	
17153.45	9000.05	10278.00	9078.13	153.29	31.37	175.54	1314.86	-27.66	6910.00	6831.81	88.37	
17200.00	9000.19	10278.00	9078.13	154.14	31.37	175.54	1314.86	-27.66	6956.55	6878.01	88.58	
17253.45	9000.34	10278.00	9078.13	155.11	31.37	175.54	1314.86	-27.66	7009.99	6931.07	88.82	
17300.00	9000.48	10278.00	9078.13	155.95	31.37	175.54	1314.86	-27.66	7056.54	6977.28	89.03	
17353.45	9000.64	10278.00	9078.13	156.92	31.37	175.54	1314.86	-27.66	7109.98	7030.33	89.27	
17400.00	9000.77	10278.00	9078.13	157.76	31.37	175.54	1314.86	-27.66	7156.53	7076.54	89.47	
17453.45	9000.93	10278.00	9078.13	158.73	31.37	175.54	1314.86	-27.66	7209.97	7129.60	89.70	
17500.00	9001.07	10278.00	9078.13	159.58	31.37	175.54	1314.86	-27.66	7256.52	7175.80	89.90	
17553.45	9001.23	10278.00	9078.13	160.55	31.37	175.54	1314.86	-27.66	7309.96	7228.86	90.13	
17600.00	9001.36	10278.00	9078.13	161.39	31.37	175.54	1314.86	-27.66	7356.51	7275.07	90.33	
17653.45	9001.52	10278.00	9078.13	162.36	31.37	175.54	1314.86	-27.66	7409.95	7328.12	90.55	
17700.00	9001.66	10278.00	9078.13	163.21	31.37	175.54	1314.86	-27.66	7456.50	7374.33	90.74	
17753.45	9001.82	10278.00	9078.13	164.18	31.37	175.54	1314.86	-27.66	7509.95	7427.38	90.96	
17800.00	9001.95	10278.00	9078.13	165.02	31.37	175.54	1314.86	-27.66	7556.49	7473.59	91.15	
17853.45	9002.11	10278.00	9078.13	166.00	31.37	175.54	1314.86	-27.66	7609.94	7526.65	91.36	
17900.00	9002.25	10278.00	9078.13	166.84	31.37	175.54	1314.86	-27.66	7656.48	7572.85	91.55	
17953.45	9002.40	10278.00	9078.13	167.81	31.37	175.54	1314.86	-27.66	7709.93	7625.91	91.76	
18000.00	9002.54	10278.00	9078.13	168.66	31.37	175.54	1314.86	-27.66	7756.48	7672.11	91.94	
18053.45	9002.70	10278.00	9078.13	169.63	31.37	175.54	1314.86	-27.66	7809.92	7725.17	92.15	
18100.00	9002.84	10278.00	9078.13	170.47	31.37	175.54	1314.86	-27.66	7856.47	7771.37	92.33	
18153.45	9002.99	10278.00	9078.13	171.44	31.37	175.54	1314.86	-27.66	7909.91	7824.43	92.53	
18200.00	9003.13	10278.00	9078.13	172.29	31.37	175.54	1314.86	-27.66	7956.46	7870.64	92.71	
18253.45	9003.29	10278.00	9078.13	173.26	31.37	175.54	1314.86	-27.66	8009.91	7923.69	92.91	
18300.00	9003.43	10278.00	9078.13	174.11	31.37	175.54	1314.86	-27.66	8056.45	7969.90	93.08	
18353.45	9003.58	10278.00	9078.13	175.08	31.37	175.54	1314.86	-27.66	8109.90	8022.95	93.28	
18400.00	9003.72	10278.00	9078.13	175.92	31.37	175.54	1314.86	-27.66	8156.44	8069.16	93.45	
18453.45	9003.88	10278.00	9078.13	176.89	31.37	175.54	1314.86	-27.66	8209.89	8122.21	93.64	
18500.00	9004.01	10278.00	9078.13	177.74	31.37	175.54	1314.86	-27.66	8256.44	8168.42	93.80	
18553.45	9004.17	10278.00	9078.13	178.71	31.37	175.54	1314.86	-27.66	8309.88	8221.47	93.99	
18600.00	9004.31	10278.00	9078.13	179.56	31.37	175.54	1314.86	-27.66	8356.43	8267.68	94.16	
18653.45	9004.47	10278.00	9078.13	180.53	31.37	175.54	1314.86	-27.66	8409.88	8320.74	94.34	
18700.00	9004.60	10278.00	9078.13	181.37	31.37	175.54	1314.86	-27.66	8456.42	8366.94	94.50	
18753.45	9004.76	10278.00	9078.13	182.35	31.37	175.54	1314.86	-27.66	8509.87	8420.00	94.69	
18800.00	9004.90	10278.00	9078.13	183.19	31.37	175.54	1314.86	-27.66	8556.42	8466.20	94.84	



Weatherford

Weatherford Drilling Services

GeoDec v5.03

Report Date: February 19, 2013
Job Number: _____
Customer: Devon Energy
Well Name: Rattlesnake Unit 13-12 Fed 1H
API Number: _____
Rig Name: _____
Location: Lea County, NM
Block: _____
Engineer: RWJ

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 378404.530 USFT	Latitude 32.0369969 DEG
East/West 825532.790 USFT	Longitude -103.4161878 DEG
Grid Convergence: .49°	
Total Correction: +6.90°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.03700° N	32° 2 min 13.189 sec
Longitude =	103.41619° W	103° 24 min 58.276 sec

Magnetic Declination =	7.39°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6801
Local Field Strength =	48355 nT	Magnetic Vector X = 24010 nT
Magnetic Dip =	59.95°	Magnetic Vector Y = 3116 nT
Magnetic Model =	bggm2012	Magnetic Vector Z = 41857 nT
Spud Date =	Feb 28, 2013	Magnetic Vector H = 24212 nT

Signed: _____

Date: _____



Proposal No: 814150589C

**DEVON ENERGY PRODUCTION COMPANY
RATTLESNAKE 13 12 FEDERAL COM #1H**

%Rattlesnake% Rig
API # 30-025-40912-0000
JABALINA SOUTHWEST Field
13P-26S-34E
Lea County, New Mexico
March 6, 2013

Cement Proposal

Prepared for:

John Logemann
Drilling Engineer
Oklahoma City, Oklahoma
Bus Phone: (405) 552-7862

Prepared by:

John Parks
Region Technical Rep.

Service Point:

BJS, ARTESIA
Bus Phone: 505-7463140
Fax: 575-746-2235

Service Representatives:

Michael R Sarabia
Field Supervisor

Powered by
PowerVision

Operator Name: DEVON ENERGY PRODUCTION COMPAN
Well Name: RATTLESNAKE 13 12 FEDERAL COM #1H
Job Description: Plug Back
Date: March 6, 2013



Proposal No: 814150589C

JOB AT A GLANCE

Depth (TVD)	9,040 ft
Depth (MD)	9,040 ft
Hole Size	8.75 in
Casing Size/Weight	9 5/8 in, 40 lbs/ft
Pump Via	Casing 3 1/2" O.D. (2.992" I.D) 9.3
Total Mix Water Required	1,565 gals
Spacer	
Mud Clean II	15 bbls
Cement Slurry	
Class H	300 sacks
Density	15.6 ppg
Yield	1.18 cf/sack

Operator Name: DEVON ENERGY PRODUCTION COMPANY
Well Name: RATTLESNAKE 13 12 FEDERAL COM #1H
Job Description: Plug Back
Date: March 6, 2013



Proposal No: 814150589C

FLUID SPECIFICATIONS

Spacer = 15.0 bbls Mud Clean II

PLUG NO.	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
1	354	1.18	= 300 sacks Class H Cement + 0.4% bwoc R-3 + 46.3% Fresh Water

CEMENT PROPERTIES

	PLUG NO.1
Slurry Weight (ppg)	15.60
Slurry Yield (cf/sack)	1.18
Amount of Mix Water (gps)	5.22
Estimated Pumping Time - 70 BC (HH:MM)	5:45
COMPRESSIVE STRENGTH	
8 hrs @ 143 ° F (psi)	500
12 hrs @ 143 ° F (psi)	1100
24 hrs @ 143 ° F (psi)	1800

PLUG GEOMETRY

	PLUG TOP	PLUG BOTTOM	
1	8303 ft	to 9040 ft	with 8.75 inch Open Hole PDSqT = 131 ° F PDST = 152.32 ° F