

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS
OCD-HOBBS

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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 page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM116575
2. Name of Operator DEVON ENERGY PROD CO., L.P. Contact: LINDA GOOD E-Mail: linda.good@dvn.com		6. If Indian, Allottee or Tribe Name
3a. Address 333 WEST SHERIDAN AVE. OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-552-6558	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 20 T24S R32E Mer NMP NWNW 330FNL 520FWL		8. Well Name and No. REBEL 20 FEDERAL 1H
		9. API Well No. 30-025-42515
		10. Field and Pool or Exploratory Area PADUCA
		11. County or Parish, State LEA COUNTY, NM

12. CHECK THE 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 ☐ Hydraulic Fracturing ☐ Reclamation ☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair ☐ New Construction ☐ Recomplete ☒ Other ShutIn Notice
	☐ 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 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must 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 Co., L.P. respectfully requests approval to extend the Drilling shut-in status. We are planning to frac this well in November 2017.

Per request by Paul Swartz attached is the As-Drilled C-102 plat, Directional Survey, Isolation Scanner log and Formation Tops.

Please let me know if you need anything else.

HOBBS OCD

JUL 12 2017

RECEIVED

*Drilling
Shut-In status extended until 06/01/2018.*

14. I hereby certify that the foregoing is true and correct. Electronic Submission #375068 verified by the BLM Well Information System For DEVON ENERGY PROD CO., L.P., sent to the Hobbs Committed to AFMSS for processing by DEBORAH MCKINNEY on 05/10/2017 ()	
Name (Printed/Typed) LINDA GOOD	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 05/04/2017
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
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 _____
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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	



KZ

As-Drilled

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-42515	² Pool Code 49490	³ Pool Name Paduca, Delaware, North
⁴ Property Code 314752	⁵ Property Name REBEL 20 FED	⁶ Well Number 1H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3571.7

¹⁰ Surface Location

UL or lot no. D	Section 20	Township 24 S	Range 32 E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 520	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. M	Section 20	Township 24 S	Range 32 E	Lot Idn	Feet from the 327	North/South line SOUTH	Feet from the 659	East/West line WEST	County LEA
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¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

N89°19'12"E 2643.68 FT N Q CORNER SEC. 20 LAT. = 32.2102165°N LONG. = 103.6967431°W NMSP EAST (FT) N = 440793.88 E = 738223.07 SURFACE LOCATION REBEL "20" FED 1H ELEV. = 3571.7 LAT. = 32.2092747°N (NAD83) LONG. = 103.7036044°W NMSP EAST (FT) N = 440438.77 E = 736102.98 NE CORNER SEC. 20 LAT. = 32.2102463°N LONG. = 103.6882040°W NMSP EAST (FT) N = 440820.46 E = 740864.04 E Q CORNER SEC. 20 LAT. = 32.2029993°N LONG. = 103.6881898°W NMSP EAST (FT) N = 438184.10 E = 740884.25 SE CORNER SEC. 20 LAT. = 32.1957312°N LONG. = 103.6881767°W NMSP EAST (FT) N = 435540.07 E = 740904.17 SW CORNER SEC. 20 LAT. = 32.1956459°N LONG. = 103.7052345°W NMSP EAST (FT) N = 435477.80 E = 735827.75 S Q CORNER SEC. 20 LAT. = 32.1956898°N LONG. = 103.6967212°W NMSP EAST (FT) N = 435509.26 E = 738261.15 BOTTOM OF HOLE LAT. = 32.1965566°N LONG. = 103.7031007°W NMSP EAST (FT) N = 435812.95 E = 736285.89 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Linda Good</i> 5/4/2017 Signature Date Linda Good Printed Name linda.good@dvn.com E-mail Address ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JANUARY 9, 2015 12797 Date of Survey <i>Filmon F. Jaramillo</i> Signature and Seal of Professional Surveyor Certificate Number: FILMON F. JARAMILLO, PLS 12797 SURVEY NO. 1731B
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PP: 344 FNL 567 FWL

Project Area: _____

Producing Area: _____

3329 W. Pinhook Rd.
Lafayette, LA 70508-3506, USA
Tel. 337-233-3982
Fax 337-234-2988

PATHFINDER
A Schlumberger Company

DIRECTIONAL SURVEY REPORT

DEVON ENERGY PRODUCTION CO., L.P.

REBEL 20 FEDERAL #1H

LEA COUNTY, NEW MEXICO

SCHLUMBERGER

PREPARED BY: DAVID PARISH

3329 W. Pinhook Rd.
Lafayette, LA 70508-3506, USA
Tel. 337-233-3982
Fax 337-234-2988



November 12, 2015

DEVON ENERGY CORPORATION
Attn: Carl Bracklein
333 West Sheridan
Oklahoma City, OK 73102

RE: DEVON ENERGY PRODUCTION CO., L.P.
Rebel 20 Federal #1H
LEA COUNTY, NM
RIG: Precision #601
API NO.: 30-025-42515
FILE NO.: 15LAF0324

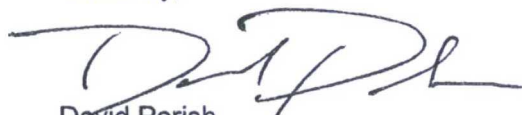
Dear Mr. Bracklein:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

DIRECTIONAL SURVEY DATA
3 – Original Directional Survey Reports

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (337) 233-3982.

Sincerely,



David Parish
M/LWD Service Coordinator
Schlumberger

DP:tb

3329 W. Pinhook Rd.
Lafayette, LA 70508-3506, USA
Tel. 337-233-3982
Fax 337-234-2988



DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: SCHLUMBERGER
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) KEVIN BLANCHARD
B) BLAIR BOUTTE
3. POSITION OF SAID PERSON(S): (A-B) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 10/19/15 TO 10/30/15
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: LEA COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

DEVON ENERGY PRODUCTION CO., L.P.
REBEL 20 FEDERAL #1H
LEA COUNTY, NM
RIG: PRECISION #601
API NO.: 30-025-42515
9. SURVEY CERTIFIED FROM: 775 TO 12,749 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED 4625.68 FEET ON A BEARING OF 178.28 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED TO BIT DEPTH OF 12,749 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



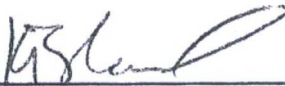
DAVID PARISH
M/LWD SERVICE COORDINATOR

3329 W. Pinhook Rd.
Lafayette, LA 70508-3506, USA
Tel. 337-233-3982
Fax 337-234-2988



STATE OF LOUISIANA
PARISH OF LAFAYETTE

I, **Kevin Blanchard**, certify that; I am employed by Schlumberger; that I did on the day(s) of **10/19/15** through **10/30/15** conduct or supervise the taking of a **Measurement While Drilling** survey from a depth of **775 feet to a depth of 12,749 feet**; that the data is true, correct, complete and within the limitations of the tool as set forth by Schlumberger; that I am authorized and qualified to make this report; that this survey was conducted at the request of **DEVON ENERGY PRODUCTION CO., L.P.** for the **Rebel 20 Federal #1H** Well API No. **30-025-42515** in **Lea County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Schlumberger.



PathFinder Field Engineer

PathFinder – a Schlumberger company

BHL Report

Page 01/01
Tie-in Date: 10/19/2015
Date Completed: 10/30/2015

DEVON ENERGY PRODUCTION COMPANY, L.P.
REBEL 20 FEDERAL 1H
LEA COUNTY, NM
API#: 30-025-42515 Rig: PRECISION 601
PathFinder Office Supervisor: DAVID LAMAR PARISH
PathFinder Field Engineers: KEVIN BLANCHARD
BLAIR BOUTTE

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.12.33.3891 N LON: 103.42.12.9758 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 736102.9800 Y: 440438.7700
North Aligned To: GRID NORTH
Total Magnetic Correction: 6.73° EAST TO GRID
Vertical Section Plane: 177.74
Survey Vert. Reference: 25.00' Rotary Table To Ground
Altitude: 3571.00' Ground To MSL

Measured Depth	12749.00	(feet)
Inclination	89.52	(deg)
Azimuth	181.27	(deg)
True Vertical Depth	8396.72	(feet)
Vertical Section	4625.47	(feet)
Survey X cord	736242.02	(feet)
Survey Y cord	435815.18	(feet)
Survey Lat	32.19656343 N	(deg)
Survey Lon	103.70324247 W	(deg)
Rectangular Corr. N/S	4623.59 S	(feet)
Rectangular Corr. E/W	139.04 E	(feet)
Closure Distance	4625.68	(feet)
Direction of Closure	178.28	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, L.P.

REBEL 20 FEDERAL 1H

LEA COUNTY, NM

API#: 30-025-42515 Rig: PRECISION 601

PathFinder Office Supervisor: DAVID LAMAR PARISH

PathFinder Field Engineers: KEVIN BLANCHARD

BLAIR BOUTTE

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.12.33.3891 N LON: 103.42.12.9758 W

GRID Reference: NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 736102.9800 Y: 440438.7700

North Aligned To: GRID NORTH

Total Magnetic Correction: 6.73° EAST TO GRID

Vertical Section Plane: 177.74

Survey Vert. Reference: 25.00' Rotary Table To Ground

Altitude: 3571.00' Ground To MSL

Survey Calculations by PathCalc v2.05.00.00 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
THE FOLLOWING ARE EXTREME ENGINEERING GYRO SURVEYS.												
171.00	0.39	61.65	171.00	171.00	-0.25	0.27 N	0.51 E	32.20927550 N	103.70360272 W	0.58@	61.78	0.23
269.00	0.31	92.57	268.99	98.00	-0.38	0.42 N	1.07 E	32.20927589 N	103.70360091 W	1.15@	68.52	0.21
330.00	0.20	111.07	329.99	61.00	-0.32	0.38 N	1.33 E	32.20927576 N	103.70360006 W	1.39@	74.29	0.22
424.00	0.31	68.53	423.99	94.00	-0.34	0.41 N	1.72 E	32.20927585 N	103.70359880 W	1.77@	76.64	0.23
519.00	0.09	59.26	518.99	95.00	-0.46	0.54 N	2.03 E	32.20927621 N	103.70359781 W	2.10@	75.04	0.23
614.00	0.09	246.24	613.99	95.00	-0.47	0.55 N	2.02 E	32.20927623 N	103.70359783 W	2.10@	74.80	0.19
709.00	0.22	154.75	708.99	95.00	-0.27	0.35 N	2.03 E	32.20927569 N	103.70359780 W	2.06@	80.10	0.25
** TIED-IN TO EXTREME ENGINEERING GYRO SURVEYS AT 775'MD.												
775.00	0.40	176.63	774.99	66.00	0.07	0.01 N	2.10 E	32.20927474 N	103.70359759 W	2.10@	89.73	0.32
THE FOLLOWING ARE SCHLUMBERGER TELEPACER MWD SURVEYS.												
905.00	0.62	181.54	904.98	130.00	1.23	1.15 S	2.11 E	32.20927157 N	103.70359758 W	2.40@	118.53	0.17
1000.00	0.79	183.17	999.98	95.00	2.39	2.31 S	2.06 E	32.20926836 N	103.70359777 W	3.10@	138.35	0.18
1094.00	0.88	181.87	1093.97	94.00	3.76	3.68 S	2.00 E	32.20926460 N	103.70359798 W	4.19@	151.51	0.10
1189.00	0.97	159.72	1188.96	95.00	5.25	5.17 S	2.25 E	32.20926052 N	103.70359719 W	5.64@	156.43	0.39
1278.00	1.06	171.16	1277.94	89.00	6.78	6.69 S	2.64 E	32.20925633 N	103.70359596 W	7.19@	158.45	0.25
1368.00	0.88	157.22	1367.93	90.00	8.26	8.15 S	3.04 E	32.20925231 N	103.70359471 W	8.69@	159.56	0.33
1457.00	1.06	162.10	1456.92	89.00	9.69	9.56 S	3.55 E	32.20924842 N	103.70359307 W	10.20@	159.60	0.22
1547.00	0.88	154.83	1546.90	90.00	11.13	10.98 S	4.10 E	32.20924451 N	103.70359132 W	11.72@	159.50	0.24
1636.00	0.79	160.03	1635.89	89.00	12.34	12.17 S	4.60 E	32.20924122 N	103.70358972 W	13.01@	159.28	0.13
1725.00	0.88	155.56	1724.88	89.00	13.56	13.37 S	5.10 E	32.20923792 N	103.70358815 W	14.31@	159.14	0.12
1815.00	0.70	158.43	1814.88	90.00	14.72	14.51 S	5.58 E	32.20923477 N	103.70358660 W	15.55@	158.95	0.20
1904.00	0.70	131.83	1903.87	89.00	15.61	15.38 S	6.19 E	32.20923238 N	103.70358466 W	16.58@	158.08	0.36
1994.00	0.79	141.05	1993.86	90.00	16.49	16.23 S	6.99 E	32.20923003 N	103.70358209 W	17.67@	156.70	0.17
2083.00	0.53	125.58	2082.86	89.00	17.24	16.95 S	7.71 E	32.20922805 N	103.70357977 W	18.62@	155.54	0.35
2172.00	0.53	109.94	2171.85	89.00	17.64	17.33 S	8.43 E	32.20922699 N	103.70357744 W	19.27@	154.05	0.16

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, L.P.
 REBEL 20 FEDERAL 1H
 LEA COUNTY, NM
 API#: 30-025-42515 Rig: PRECISION 601

Page 02/06

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
2262.00	0.70	106.48	2261.85	90.00	17.98	17.62 S	9.35 E	32.20922616 N	103.70357448 W	19.95@	152.05	0.19
2351.00	0.53	115.38	2350.84	89.00	18.34	17.95 S	10.24 E	32.20922524 N	103.70357160 W	20.67@	150.29	0.22
2440.00	0.44	96.42	2439.84	89.00	18.59	18.17 S	10.95 E	32.20922463 N	103.70356930 W	21.22@	148.91	0.21
2530.00	0.53	79.97	2529.84	90.00	18.58	18.13 S	11.71 E	32.20922472 N	103.70356687 W	21.59@	147.15	0.18
2619.00	0.70	106.88	2618.83	89.00	18.70	18.22 S	12.63 E	32.20922446 N	103.70356388 W	22.17@	145.26	0.37
2709.00	0.70	83.54	2708.82	90.00	18.84	18.32 S	13.71 E	32.20922418 N	103.70356041 W	22.88@	143.20	0.31
2798.00	0.97	92.43	2797.81	89.00	18.87	18.29 S	15.00 E	32.20922424 N	103.70355623 W	23.65@	140.65	0.34
2887.00	1.06	96.71	2886.80	89.00	19.06	18.42 S	16.57 E	32.20922386 N	103.70355116 W	24.77@	138.02	0.13
2977.00	0.97	76.96	2976.79	90.00	19.04	18.34 S	18.14 E	32.20922404 N	103.70354608 W	25.80@	135.32	0.40
3066.00	0.97	82.56	3065.77	89.00	18.83	18.08 S	19.62 E	32.20922475 N	103.70354129 W	26.68@	132.66	0.11
3155.00	1.06	78.84	3154.76	89.00	18.64	17.82 S	21.17 E	32.20922543 N	103.70353626 W	27.67@	130.08	0.13
3245.00	0.97	66.21	3244.75	90.00	18.23	17.35 S	22.69 E	32.20922670 N	103.70353135 W	28.56@	127.41	0.27
3334.00	0.88	75.08	3333.73	89.00	17.80	16.87 S	24.04 E	32.20922799 N	103.70352698 W	29.37@	125.06	0.19
3423.00	0.79	62.26	3422.73	89.00	17.39	16.41 S	25.24 E	32.20922924 N	103.70352308 W	30.11@	123.03	0.23
3513.00	0.70	57.27	3512.72	90.00	16.85	15.82 S	26.25 E	32.20923084 N	103.70351980 W	30.65@	121.08	0.12
3602.00	0.62	47.83	3601.71	89.00	16.26	15.21 S	27.07 E	32.20923252 N	103.70351716 W	31.04@	119.33	0.15
3692.00	0.79	42.28	3691.70	90.00	15.51	14.42 S	27.84 E	32.20923467 N	103.70351463 W	31.36@	117.38	0.20
3781.00	0.70	39.16	3780.70	89.00	14.66	13.54 S	28.60 E	32.20923706 N	103.70351216 W	31.65@	115.34	0.11
3871.00	0.97	56.61	3870.69	90.00	13.86	12.70 S	29.58 E	32.20923937 N	103.70350897 W	32.19@	113.23	0.41
3960.00	1.06	68.73	3959.67	89.00	13.20	11.99 S	30.98 E	32.20924131 N	103.70350444 W	33.22@	111.15	0.26
4049.00	1.14	76.84	4048.66	89.00	12.76	11.48 S	32.61 E	32.20924266 N	103.70349916 W	34.57@	109.40	0.20
4139.00	1.32	85.50	4138.64	90.00	12.55	11.20 S	34.51 E	32.20924341 N	103.70349300 W	36.29@	107.98	0.29
4228.00	1.41	95.70	4227.61	89.00	12.66	11.23 S	36.63 E	32.20924330 N	103.70348617 W	38.31@	107.04	0.29
4318.00	1.49	107.50	4317.58	90.00	13.21	11.69 S	38.84 E	32.20924199 N	103.70347901 W	40.56@	106.75	0.34
4407.00	1.67	106.36	4406.55	89.00	14.02	12.40 S	41.19 E	32.20923999 N	103.70347143 W	43.02@	106.76	0.21
4496.00	1.67	112.22	4495.51	89.00	14.97	13.26 S	43.64 E	32.20923760 N	103.70346355 W	45.61@	106.90	0.19
4515.00	1.49	107.16	4514.50	19.00	15.17	13.44 S	44.13 E	32.20923711 N	103.70346196 W	46.13@	106.93	1.20
4656.00	1.41	103.09	4655.46	141.00	16.23	14.37 S	47.57 E	32.20923449 N	103.70345085 W	49.69@	106.81	0.09

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, L.P.
 REBEL 20 FEDERAL 1H
 LEA COUNTY, NM
 API#: 30-025-42515 Rig: PRECISION 601

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
4745.00	1.14	85.26	4744.44	89.00	16.49	14.55 S	49.52 E	32.20923397 N	103.70344455 W	51.61@	106.37	0.54
4835.00	1.23	61.52	4834.42	90.00	16.02	14.01 S	51.26 E	32.20923541 N	103.70343891 W	53.14@	105.29	0.55
4924.00	1.76	42.39	4923.39	89.00	14.63	12.55 S	53.02 E	32.20923941 N	103.70343319 W	54.49@	103.31	0.81
5013.00	2.29	34.72	5012.33	89.00	12.23	10.07 S	54.96 E	32.20924617 N	103.70342689 W	55.87@	100.39	0.67
5103.00	3.25	34.50	5102.23	90.00	8.75	6.49 S	57.42 E	32.20925598 N	103.70341884 W	57.79@	96.45	1.07
5192.00	3.43	31.77	5191.08	89.00	4.53	2.15 S	60.26 E	32.20926787 N	103.70340960 W	60.29@	92.04	0.27
5281.00	4.22	35.87	5279.88	89.00	-0.26	2.77 N	63.58 E	32.20928133 N	103.70339878 W	63.64@	87.51	0.94
5370.00	5.28	37.44	5368.57	89.00	-5.98	8.67 N	67.98 E	32.20929749 N	103.70338441 W	68.54@	82.73	1.20
5460.00	5.19	37.51	5458.19	90.00	-12.30	15.19 N	72.98 E	32.20931532 N	103.70336813 W	74.54@	78.24	0.10
5549.00	5.01	38.13	5546.84	89.00	-18.35	21.44 N	77.83 E	32.20933242 N	103.70335233 W	80.73@	74.60	0.21
5638.00	4.84	36.04	5635.51	89.00	-24.26	27.53 N	82.44 E	32.20934910 N	103.70333732 W	86.92@	71.53	0.28
5728.00	4.84	35.04	5725.19	90.00	-30.26	33.71 N	86.85 E	32.20936601 N	103.70332293 W	93.17@	68.79	0.09
5817.00	4.75	35.53	5813.88	89.00	-36.16	39.78 N	91.15 E	32.20938264 N	103.70330892 W	99.45@	66.42	0.11
5906.00	4.66	35.29	5902.58	89.00	-41.94	45.73 N	95.38 E	32.20939892 N	103.70329513 W	105.78@	64.38	0.10
5995.00	4.66	35.87	5991.29	89.00	-47.65	51.61 N	99.59 E	32.20941502 N	103.70328142 W	112.17@	62.60	0.05
6085.00	4.57	37.44	6081.00	90.00	-53.28	57.42 N	103.91 E	32.20943092 N	103.70326734 W	118.72@	61.07	0.17
6174.00	4.40	37.27	6169.72	89.00	-58.64	62.95 N	108.13 E	32.20944606 N	103.70325358 W	125.12@	59.79	0.19
6263.00	4.31	35.72	6258.47	89.00	-63.91	68.39 N	112.15 E	32.20946092 N	103.70324048 W	131.36@	58.63	0.17
6353.00	3.61	32.70	6348.25	90.00	-68.90	73.52 N	115.66 E	32.20947497 N	103.70322905 W	137.05@	57.56	0.81
6442.00	2.81	35.51	6437.11	89.00	-72.92	77.65 N	118.44 E	32.20948628 N	103.70321998 W	141.62@	56.75	0.92
6532.00	2.11	30.40	6527.03	90.00	-76.06	80.88 N	120.56 E	32.20949511 N	103.70321307 W	145.17@	56.14	0.81
6621.00	2.11	33.86	6615.97	89.00	-78.76	83.65 N	122.30 E	32.20950271 N	103.70320738 W	148.17@	55.63	0.14
6710.00	2.02	35.76	6704.91	89.00	-81.32	86.28 N	124.13 E	32.20950992 N	103.70320142 W	151.17@	55.20	0.13
6800.00	2.11	38.56	6794.85	90.00	-83.82	88.86 N	126.09 E	32.20951699 N	103.70319503 W	154.26@	54.82	0.15
6889.00	2.02	34.15	6883.79	89.00	-86.33	91.44 N	127.99 E	32.20952405 N	103.70318883 W	157.30@	54.46	0.21
6978.00	2.02	33.99	6972.74	89.00	-88.85	94.04 N	129.75 E	32.20953116 N	103.70318310 W	160.25@	54.07	0.01
7068.00	1.76	32.36	7062.69	90.00	-91.27	96.53 N	131.38 E	32.20953796 N	103.70317780 W	163.02@	53.69	0.29
7157.00	1.49	34.77	7151.65	89.00	-93.32	98.63 N	132.77 E	32.20954372 N	103.70317326 W	165.39@	53.39	0.31

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7246.00	0.79	70.40	7240.63	89.00	-94.42	99.79 N	134.00 E	32.20954688 N	103.70316923 W	167.08@	53.33	1.08
7336.00	0.53	150.41	7330.63	90.00	-94.24	99.63 N	134.79 E	32.20954645 N	103.70316668 W	167.62@	53.53	0.97
7425.00	0.53	156.51	7419.63	89.00	-93.49	98.90 N	135.16 E	32.20954442 N	103.70316551 W	167.48@	53.81	0.06
7515.00	0.53	142.66	7509.62	90.00	-92.76	98.18 N	135.58 E	32.20954245 N	103.70316417 W	167.40@	54.09	0.14
7604.00	0.62	141.32	7598.62	89.00	-92.04	97.48 N	136.13 E	32.20954051 N	103.70316240 W	167.43@	54.39	0.10
7647.00	0.62	142.32	7641.62	43.00	-91.66	97.12 N	136.42 E	32.20953950 N	103.70316148 W	167.46@	54.55	0.03
7721.00	4.31	177.66	7715.54	74.00	-88.55	94.02 N	136.78 E	32.20953098 N	103.70316038 W	165.97@	55.50	5.16
7764.00	10.82	176.64	7758.14	43.00	-82.90	88.37 N	137.08 E	32.20951545 N	103.70315951 W	163.10@	57.19	15.14
7809.00	17.67	173.93	7801.73	45.00	-71.84	77.35 N	138.05 E	32.20948514 N	103.70315658 W	158.24@	60.74	15.29
7854.00	24.36	173.85	7843.71	45.00	-55.75	61.31 N	139.77 E	32.20944103 N	103.70315133 W	152.63@	66.31	14.87
7898.00	27.08	174.05	7883.35	44.00	-36.70	42.33 N	141.78 E	32.20938881 N	103.70314519 W	147.96@	73.38	6.18
7943.00	28.31	173.67	7923.19	45.00	-15.84	21.53 N	144.02 E	32.20933162 N	103.70313834 W	145.62@	81.50	2.76
7988.00	31.48	174.21	7962.20	45.00	6.54	0.77 S	146.38 E	32.20927028 N	103.70313113 W	146.38@	90.30	7.07
8032.00	34.65	173.69	7999.07	44.00	30.49	24.64 S	148.91 E	32.20920463 N	103.70312339 W	150.94@	99.39	7.23
8077.00	38.16	173.96	8035.28	45.00	57.13	51.19 S	151.78 E	32.20913161 N	103.70311461 W	160.18@	108.64	7.81
8122.00	41.59	177.20	8069.82	45.00	85.95	79.94 S	153.98 E	32.20905254 N	103.70310807 W	173.49@	117.44	8.91
8166.00	44.14	177.99	8102.06	44.00	115.88	109.84 S	155.23 E	32.20897032 N	103.70310459 W	190.16@	125.28	5.92
8211.00	47.31	178.59	8133.48	45.00	148.09	142.04 S	156.19 E	32.20888179 N	103.70310211 W	211.12@	132.29	7.11
8256.00	50.83	179.60	8162.95	45.00	182.07	176.03 S	156.71 E	32.20878836 N	103.70310104 W	235.68@	138.32	8.00
8300.00	54.69	179.18	8189.57	44.00	217.08	211.05 S	157.09 E	32.20869209 N	103.70310049 W	263.10@	143.34	8.81
8345.00	57.07	178.93	8214.81	45.00	254.32	248.30 S	157.71 E	32.20858970 N	103.70309920 W	294.15@	147.58	5.31
8390.00	59.18	178.72	8238.58	45.00	292.53	286.50 S	158.49 E	32.20848468 N	103.70309739 W	327.42@	151.05	4.71
8434.00	61.64	178.72	8260.30	44.00	330.78	324.75 S	159.35 E	32.20837953 N	103.70309535 W	361.74@	153.86	5.59
8479.00	65.16	179.06	8280.45	45.00	371.00	364.97 S	160.12 E	32.20826895 N	103.70309360 W	398.55@	156.31	7.85
8524.00	68.68	179.06	8298.09	45.00	412.38	406.36 S	160.80 E	32.20815518 N	103.70309219 W	437.02@	158.41	7.82
8568.00	71.31	178.86	8313.14	44.00	453.72	447.69 S	161.55 E	32.20804155 N	103.70309055 W	475.95@	160.16	5.99
8613.00	75.53	179.09	8325.97	45.00	496.83	490.81 S	162.32 E	32.20792303 N	103.70308887 W	516.95@	161.70	9.39
8658.00	79.32	179.84	8335.77	45.00	540.72	534.72 S	162.73 E	32.20780233 N	103.70308839 W	558.93@	163.07	8.58

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8699.00	81.78	180.20	8342.50	41.00	581.13	575.16 S	162.72 E	32.20769117 N	103.70308920 W	597.73@	164.20	6.06
8746.00	84.68	180.11	8348.04	47.00	627.75	621.82 S	162.59 E	32.20756289 N	103.70309049 W	642.73@	165.35	6.17
8787.00	85.74	180.87	8351.46	41.00	668.56	662.68 S	162.24 E	32.20745060 N	103.70309240 W	682.25@	166.24	3.18
8832.00	88.55	180.86	8353.71	45.00	713.43	707.61 S	161.56 E	32.20732710 N	103.70309544 W	725.82@	167.14	6.24
8877.00	89.43	181.25	8354.50	45.00	758.35	752.60 S	160.73 E	32.20720346 N	103.70309897 W	769.57@	167.94	2.14
8966.00	89.69	181.16	8355.18	89.00	847.19	841.58 S	158.86 E	32.20695891 N	103.70310671 W	856.44@	169.31	0.31
9055.00	89.69	180.44	8355.66	89.00	936.06	930.57 S	157.62 E	32.20671432 N	103.70311242 W	943.82@	170.39	0.81
9145.00	89.87	181.64	8356.01	90.00	1025.91	1020.55 S	155.99 E	32.20646701 N	103.70311940 W	1032.40@	171.31	1.35
9234.00	90.31	180.88	8355.87	89.00	1114.74	1109.53 S	154.03 E	32.20622246 N	103.70312742 W	1120.17@	172.10	0.99
9324.00	89.87	180.18	8355.73	90.00	1204.63	1199.52 S	153.20 E	32.20597510 N	103.70313181 W	1209.26@	172.72	0.92
9413.00	90.84	180.35	8355.18	89.00	1293.54	1288.52 S	152.78 E	32.20573048 N	103.70313483 W	1297.54@	173.24	1.11
9502.00	89.52	180.60	8354.90	89.00	1382.44	1377.51 S	152.05 E	32.20548587 N	103.70313890 W	1385.88@	173.70	1.51
9592.00	89.78	180.92	8355.45	90.00	1472.31	1467.50 S	150.85 E	32.20523853 N	103.70314447 W	1475.24@	174.13	0.46
9681.00	89.87	180.58	8355.72	89.00	1561.19	1556.49 S	149.69 E	32.20499393 N	103.70314992 W	1563.68@	174.51	0.40
9770.00	87.93	179.84	8357.43	89.00	1650.08	1645.47 S	149.36 E	32.20474936 N	103.70315266 W	1652.24@	174.81	2.33
9860.00	87.93	179.87	8360.68	90.00	1739.96	1735.41 S	149.59 E	32.20450213 N	103.70315363 W	1741.85@	175.07	0.03
9949.00	88.29	180.07	8363.61	89.00	1828.85	1824.36 S	149.64 E	32.20425762 N	103.70315516 W	1830.49@	175.31	0.46
10038.00	88.64	180.88	8366.00	89.00	1917.71	1913.33 S	148.90 E	32.20401310 N	103.70315924 W	1919.11@	175.55	0.99
10128.00	88.64	181.03	8368.13	90.00	2007.54	2003.29 S	147.40 E	32.20376584 N	103.70316579 W	2008.71@	175.79	0.17
10217.00	88.90	181.13	8370.04	89.00	2096.37	2092.25 S	145.72 E	32.20352132 N	103.70317290 W	2097.32@	176.02	0.31
10306.00	89.43	181.62	8371.34	89.00	2185.18	2181.22 S	143.59 E	32.20327682 N	103.70318149 W	2185.94@	176.23	0.81
10395.00	89.87	180.94	8371.89	89.00	2274.01	2270.19 S	141.60 E	32.20303228 N	103.70318960 W	2274.61@	176.43	0.91
10485.00	88.90	178.39	8372.85	90.00	2363.95	2360.18 S	142.12 E	32.20278493 N	103.70318960 W	2364.45@	176.55	3.03
10574.00	88.64	178.55	8374.76	89.00	2452.92	2449.13 S	144.50 E	32.20254039 N	103.70318361 W	2453.39@	176.62	0.34
10664.00	89.16	178.78	8376.49	90.00	2542.89	2539.08 S	146.60 E	32.20229308 N	103.70317854 W	2543.31@	176.70	0.63
10753.00	89.34	178.96	8377.65	89.00	2631.87	2628.06 S	148.35 E	32.20204849 N	103.70317455 W	2632.24@	176.77	0.29
10842.00	89.96	179.65	8378.20	89.00	2720.83	2717.05 S	149.43 E	32.20180386 N	103.70317274 W	2721.16@	176.85	1.04
10932.00	90.22	179.96	8378.06	90.00	2810.77	2807.05 S	149.74 E	32.20155647 N	103.70317346 W	2811.04@	176.95	0.45

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11021.00	90.84	181.16	8377.23	89.00	2899.66	2896.04 S	148.87 E	32.20131187 N	103.70317796 W	2899.86@	177.06	1.52
11110.00	90.31	180.78	8376.34	89.00	2988.51	2985.02 S	147.36 E	32.20106730 N	103.70318451 W	2988.66@	177.17	0.73
11199.00	89.87	180.56	8376.20	89.00	3077.39	3074.02 S	146.32 E	32.20082270 N	103.70318956 W	3077.50@	177.27	0.55
11289.00	88.99	179.57	8377.10	90.00	3167.31	3164.01 S	146.22 E	32.20057533 N	103.70319160 W	3167.39@	177.35	1.47
11378.00	88.29	178.95	8379.21	89.00	3256.26	3252.98 S	147.37 E	32.20033077 N	103.70318957 W	3256.31@	177.41	1.05
11468.00	88.29	178.31	8381.89	90.00	3346.20	3342.91 S	149.52 E	32.20008353 N	103.70318432 W	3346.25@	177.44	0.71
11557.00	89.60	180.14	8383.53	89.00	3435.15	3431.88 S	150.72 E	32.19983895 N	103.70318212 W	3435.19@	177.49	2.53
11646.00	90.31	181.42	8383.60	89.00	3524.03	3520.87 S	149.51 E	32.19959436 N	103.70318772 W	3524.04@	177.57	1.64
11736.00	89.25	180.24	8383.95	90.00	3613.89	3610.86 S	148.21 E	32.19934703 N	103.70319364 W	3613.90@	177.65	1.76
11825.00	88.99	179.90	8385.32	89.00	3702.81	3699.85 S	148.10 E	32.19910242 N	103.70319568 W	3702.81@	177.71	0.48
11914.00	89.87	179.57	8386.20	89.00	3791.75	3788.84 S	148.51 E	32.19885779 N	103.70319603 W	3791.75@	177.76	1.06
12004.00	88.99	179.22	8387.10	90.00	3881.71	3878.83 S	149.46 E	32.19861042 N	103.70319467 W	3881.71@	177.79	1.05
12093.00	88.46	179.46	8389.08	89.00	3970.65	3967.80 S	150.48 E	32.19836584 N	103.70319304 W	3970.65@	177.83	0.65
12182.00	88.55	180.61	8391.40	89.00	4059.55	4056.77 S	150.43 E	32.19812129 N	103.70319490 W	4059.56@	177.88	1.30
12272.00	90.92	182.11	8391.81	90.00	4149.36	4146.73 S	148.29 E	32.19787403 N	103.70320351 W	4149.38@	177.95	3.12
12361.00	89.52	181.60	8391.47	89.00	4238.12	4235.68 S	145.41 E	32.19762958 N	103.70321451 W	4238.18@	178.03	1.67
12451.00	88.90	180.41	8392.71	90.00	4327.97	4325.66 S	143.83 E	32.19738228 N	103.70322131 W	4328.05@	178.10	1.49
12540.00	88.72	180.93	8394.56	89.00	4416.83	4414.63 S	142.79 E	32.19713773 N	103.70322636 W	4416.94@	178.15	0.62
12630.00	89.69	180.81	8395.81	90.00	4506.69	4504.61 S	141.43 E	32.19689042 N	103.70323248 W	4506.83@	178.20	1.09
12691.00	89.52	181.27	8396.23	61.00	4567.58	4565.60 S	140.32 E	32.19672280 N	103.70323722 W	4567.76@	178.24	0.80
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 12749'MD.												
12749.00	89.52	181.27	8396.72	58.00	4625.47	4623.59 S	139.04 E	32.19656343 N	103.70324247 W	4625.68@	178.28	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder – a Schlumberger company and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.

Rebel 20 Fed 1H

BHL	327'	FSL	659'	FWL	20-24S-32E
PP	344'	FNL	567'	FWL	20-24S-32E

	MD	SS	Resource	Lithology
Rustler	781	2815	Barren	Limestone
Salado	1093	2503	Barren	Salt
Base of Salt	4415	-817	Barren	Salt
Delaware	4631	-1033	Barren	Shale
Bell Canyon	4652	-1055	Oil & Gas	Sandstone
Cherry Canyon	5529	-1930	Oil & Gas	Sandstone
Brushy Canyon	6830	-3327	Oil & Gas	Sandstone