

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTCarlsbad Field Office
FORM APPROVED
BLM NO. 1004-0137
Expires: January 31, 2018
Case Serial No.
NMLC062269A**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		6. If Indian, Allottee or Tribe Name
2. Name of Operator APACHE CORPORATION Contact: SORINA L FLORES E-Mail: sorina.flores@apachecorp.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1167	8. Well Name and No. GHOST RIDER 22-15 FEDERAL COM 202H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T24S R32E SESE 400FSL 736FEL 32.196918 N Lat, 103.656357 W Lon		9. API Well No. 30-025-45769-00-X1
		10. Field and Pool or Exploratory Area WILDCAT BONE SPRING
		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
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ 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.

NMB000736

5/22/19: Notify BLM(Christie Pruitt) of spud.

5/22/19: Spud well, TD 17-1/2" surf hole @ 1094', notify BLM (Paul Flowers) of intent to run csg, set 13-3/8" 54.5# J55 BTC csg @ 1094', cmt w/LEAD: 620sx CI C w/4% gel, 0.4% defoamer(1.72yld,13.5ppg) TAIL: 300sx CI C (1.33yld,14.8ppg), Circ 251sx to surf, WOC 8 hrs, RR spudder rig 5/25/19.

7/13/19: Notify BLM(Steven) of drillout of surf csg & BOP test, test csg 1500psi/30min - OK, Drill 12-1/4" Interm hole f/1094'-4589'.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #490267 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 10/31/2019 (20PP0263SE)	
Name (Printed/Typed) SORINA L FLORES	Title SUBMITTING CONTACT
Signature (Electronic Submission)	Date 10/29/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title Accepted for Record	Date NOV 05 2019
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 Jonathon Shepard Carlsbad Field 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 to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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

Additional data for EC transaction #490267 that would not fit on the form

32. Additional remarks, continued

7/16/19: Work stuck pipe, lost fish, TOH w/fish, drill f/4589-6976' TD, Notify BLM(John Staton) of intent to run csg & cmt.

7/20/19: Set 9-5/8" 40# HCL80 BTC @ 6976', FS @ 6974', FC @ 6929', ECP @ 4856', DVT @ 4852', Cmt 1st stage LEAD w/400sx CI C w/10% salt, 6% gel, 1% MgOx-M, 0.125# LCM, 0.7% retarder (2.32yld, 12.7ppg) TAIL: 455sx CI C w/10% salt, 1% MgOxM, 0.4% dispersant, 0.4% retarder (1.42yld, 14.8ppg), No returns throughout entire stage, attempt to open DVT, failed, bleed off pressure, tool failed, bleed off, tool failed, Notify BLM, run temp survey f/4852' to surf, drop canceling plug for DVT, perf csg above DVT, pmp 2nd stage cmtt, leave 91sx (14.8ppg) inside csg, hold presser, WOC. ✓

7/22/19: RD cementers, Run temp log, TOC @ 3980', contact BLM, pmp sqz job behind csg: 500sx CI C Neat (1.33yld, 14.8ppg), hold 6 hrs, contact BLM, RU WL, cmt detected f/30-1470', no cmt f/1470-4192', test BOP w/Battle Energy per BLM, test interm csg: 1500psi/30min, 155psi slowly bleed off during test, meet BLM required csg pressure test tolerance of 10%, PU drill out assmbly, wash thru cmt stringers, drill cmt f/4514-4750'(75' above perfs). ✓

7/24/19: Test 9-5/8" csg @ 4750' @ 1550psi/30min - OK, PU drlg assmbly, drill 8-3/4" vertical f/6979-10510', drill 8-3/4" curve f/10510-11294'.

7/31/19: Drill 8-1/2" prod lateral f/11294-15526', TOH, found washed out 4" crack in hardband on HWDP, chg out bit & motor, replace broken shot pin, TIH, drill f/15526-18595' TD, notify BLM (Pat McKenley) of csg /cmt job @ 18:10 8/5/19.

8/5/19: Conduct flow ck, well flowing 100bbl/hr, slowed to 65bbl/hr, continuing to drop off, shut in well to monitor backside pressure, had 54psi csg pressure after 5 min, bled pressure off & circ while waiting for replacement shot pin assbly to arrive, replace shot pin, well flowing 12bbl/hr, TOH to KOP w/proper hole fill, ck flow, well static, begin RU CRT to run 5-1/2" prod csg.

Ghost Rider 22-15 Fed Com 202H – pg 2

8/7/19: Run 5-1/2" 20# P110-RY GBCD csg to 18595' TD, Notify BLM, Pat, of cmt job, 1st LEAD: 830sx Nine lite w/5% B52, 0.3% fluid loss, 0.2% dispersant, 0.2% suspension aid, 0.15% retarder, 0.15% citric acid(2.86yld, 10.5ppg), 2nd LEAD: 430sx Nine Lite w/3% salt, 1% expansive additive, 0.15% fluid loss, 0.15% suspension aid, 0.4% retarder(2.2yld, 11.5ppg), TAIL: 1700sx Nine lite w/1.3% salt, 3% expansion additive, 0.5% fluid loss, 0.1% free wtr control, 0.2% dispersant, 0.25% defoamer, 0.5% retarder(1.43yld, 13.2ppg), No cmt to surf, Pmp bradenhead sqz thru wellhead w/1900sx CI H(1.18yld, 15.6ppg), close B section valve, RD cementers, ND BOP, set TA cap w/pressure gauge, RR 8/8/19.



Weatherford

Drilling Services
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Apache Corporation
303 Veterans Airpark Lane
Midland, TX, 79705

Date: August 6, 2019

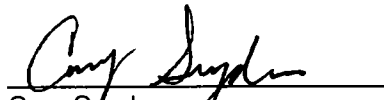
Attention: Taylor Thetford

Re: Apache Corporation
Well: Ghost Rider 22-15 FED COM 202H
Lea County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

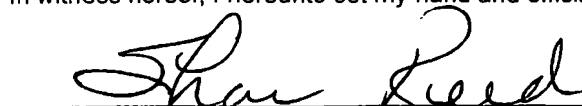
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Cory Snyder	202H	10,420 MD	7/28/2019	Measurement
MWD Ops. Coordinator		18,524 MD	8/5/2019	While Drilling

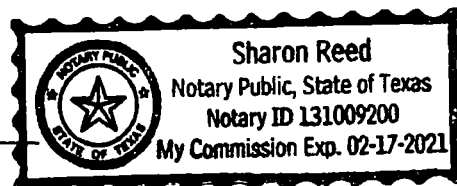
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Cory Snyder
MWD Ops. Coordinator

On this, the 6 day of August, 2019, before me a notary public, the undersigned officer, personally appeared Cory Snyder, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.


Notary Public





5D Survey Report

Apache Corporation

Field Name: *Apache NM (Nad 83 NMEZ)*
Site Name: *Ghost Rider Pad 1S*
Well Name: *Ghost Rider 22-15 FED COM 202H*
File number: *13841018*
Survey: *Definitive survey*

6 August 2019





Ghost Rider 22-15 FED COM 202H

Field Name:	Map Units: US ft		Company Name: Apache Corporation	
Apache NM (Nad 83 NMEZ)	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site:	Units: US ft	North Reference: Grid	Convergence Angle: 0.36	
	Position:	Northing: 436032.90 US ft	Latitude: 32.196918551	
		Easting: 750804.50 US ft	Longitude: -103.656162903	
	Ghost Rider Pad 1S	Elevation above MSL: 3590.00 US ft		
	Comment: Lea Co., NM			
Slot:	Position (Relative to Site Centre)			
	+N/-S: -0.60 US ft	Northing: 436032.30 US ft	Latitude: 32.196917940	
	+E/-W: -60.00 US ft	Easting: 750744.50 US ft	Longitude: -103.656356873	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 3590.00 US ft			
Ghost Rider 22-15 FED COM 202H	Comment:			
	Type: Main well	UWI:		
	File Number: 13841018	Comment: H&P 605		
	Closure Distance: 7467.28 US ft	Closure Azimuth: 357.72°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft	+E/-W: -0.00 US ft	Az: 0.00°	

Drill floor: Survey Name: Definitive Survey
Rig Height (Drill Floor): 26.00 US ft **Elevation above MSL:** 3616.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00°

Survey Name: Definitive Survey

Date: 28/Jun/2018 **Survey Tool:** See Survey **Comment:** **Company:**
 Tool Ranges below.

Magnetic Model:

Model Name: MagVar **Date:** 19/Jul/2019 **Field Strength:** 47862.0 nT **Declination:** 6.77° **Dip:** 59.88°

Tie Point:

MD: 0.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00° **TVD:** 0.00 US ft **North Offset:** 0.00 US ft **East Offset:** -0.00 US ft

Survey Tool Ranges:

Name	Start MD(USft)	End MD(USft)	Source Survey
GYRO_GC_WIR+DPIPE_GYD	0.00	10351.33	GyroData Gyro

SD Survey Report

Survey Tool Ranges:			
Name	Start MD(usft)	End MD(usft)	Source Survey
MWD + IFR + MS	10351.33	11234.00	WFT MWD 04
MWD + IFR + Sag Corr. + MS	11234.00	15400.00	WFT MWD 06
MWD + IFR + Sag Corr. + MS	15400.00	18595.00	WFT MWD 07

Casing Points: (Relative to Slot centre)(TVD relative to Drill Floor)								
Name	RID (US ft)	Inc (°)	Az (°)	TVD (US ft)	H. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)
13 3/8 In	1090.00	0.89	190.45	1089.94	-4.44	6.91	436027.86	750751.41
9 5/8 In	6950.00	8.48	207.25	6941.12	-146.67	-70.17	435885.63	750674.33

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	H. Offset (US ft)	E. Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
10351.33	0.61	214.19	10325.30	-352.57	-352.57	-186.77	0.21	435679.73	750557.73	Tleon GyroData Gyro
10420.00	0.65	223.32	10393.96	-353.15	-353.15	-187.25	0.16	435679.15	750557.25	First WFT MWD Svy
10483.00	0.82	235.92	10456.96	-353.66	-353.66	-187.87	0.37	435678.64	750556.63	
10577.00	8.68	340.96	10550.60	-347.32	-347.32	-190.74	9.50	435684.98	750553.76	
10624.00	15.07	344.53	10596.57	-338.07	-338.07	-193.53	13.68	435694.23	750550.97	
10670.00	20.88	347.42	10640.31	-324.30	-324.30	-196.92	12.77	435708.00	750547.58	
10717.00	27.27	347.88	10683.20	-305.58	-305.58	-201.01	13.60	435726.72	750543.49	
10764.00	33.14	349.31	10723.80	-282.40	-282.40	-205.65	12.58	435749.90	750538.85	
10811.00	36.77	352.45	10762.32	-255.82	-255.82	-209.89	8.62	435776.48	750534.61	
10858.00	39.49	354.10	10799.29	-227.01	-227.01	-213.27	6.18	435805.29	750531.23	
10905.00	46.16	354.13	10833.74	-195.24	-195.24	-216.54	14.19	435837.06	750527.96	
10952.00	52.91	354.71	10864.22	-159.68	-159.68	-220.01	14.39	435872.62	750524.49	
10999.00	60.92	355.99	10889.86	-120.46	-120.46	-223.18	17.19	435911.84	750521.32	
11046.00	68.66	357.03	10909.87	-78.05	-78.05	-225.75	16.59	435954.25	750518.75	
11093.00	72.67	358.27	10925.42	-33.74	-33.74	-227.57	8.89	435998.56	750516.93	
11140.00	75.65	358.38	10938.25	11.45	11.45	-228.89	6.34	436043.75	750515.61	
11187.00	79.45	357.66	10948.38	57.31	57.31	-230.48	8.22	436089.61	750514.02	
11234.00	83.06	357.63	10955.53	103.71	103.71	-232.38	7.68	436136.01	750512.12	
11258.00	84.10	357.67	10958.21	127.54	127.54	-233.36	4.34	436159.84	750511.14	
11352.00	85.16	359.24	10967.01	221.09	221.09	-235.88	2.01	436253.39	750508.62	
11447.00	88.94	359.79	10971.90	315.94	315.94	-236.69	4.02	436348.24	750507.81	
11541.00	90.34	359.95	10972.49	409.94	409.94	-236.90	1.50	436442.24	750507.60	
11635.00	91.67	0.17	10970.84	503.92	503.92	-236.80	1.43	436536.22	750507.70	
11729.00	89.22	359.46	10970.11	597.91	597.91	-237.10	2.71	436630.21	750507.40	
11823.00	89.92	359.35	10970.81	691.90	691.90	-238.08	0.75	436724.20	750506.42	
11917.00	90.27	359.16	10970.66	785.90	785.90	-239.30	0.42	436818.20	750505.20	
12011.00	90.34	358.81	10970.16	879.88	879.88	-240.97	0.38	436912.18	750503.53	
12105.00	92.02	359.58	10968.22	973.85	973.85	-242.29	1.97	437006.15	750502.21	
12199.00	89.36	359.15	10967.09	1067.82	1067.82	-243.33	2.87	437100.12	750501.17	
12293.00	89.78	358.22	10967.80	1161.80	1161.80	-245.49	1.09	437194.10	750499.01	
12387.00	89.71	356.72	10968.21	1255.70	1255.70	-249.64	1.60	437288.00	750494.86	
12482.00	89.36	355.34	10968.98	1350.47	1350.47	-256.21	1.50	437382.77	750488.29	
12576.00	90.13	355.75	10969.40	1444.18	1444.18	-263.51	0.93	437476.48	750480.99	
12670.00	91.74	359.77	10967.87	1538.07	1538.07	-267.19	4.61	437570.37	750477.31	
12764.00	92.79	0.08	10964.15	1632.00	1632.00	-267.31	1.16	437664.30	750477.19	
12859.00	91.46	0.38	10960.63	1726.93	1726.93	-266.93	1.44	437759.23	750477.57	
12953.00	90.83	0.21	10958.75	1820.91	1820.91	-266.45	0.69	437853.21	750478.05	
13047.00	90.48	0.48	10957.68	1914.90	1914.90	-265.88	0.47	437947.20	750478.62	
13141.00	90.90	0.61	10956.55	2008.89	2008.89	-264.99	0.47	438041.19	750479.51	
13235.00	90.34	0.61	10955.53	2102.88	2102.88	-263.99	0.60	438135.18	750480.51	
13329.00	90.27	0.65	10955.03	2196.87	2196.87	-262.95	0.09	438229.17	750481.55	
13424.00	91.04	1.19	10953.94	2291.85	2291.85	-261.43	0.99	438324.15	750483.07	
13518.00	91.18	1.42	10952.12	2385.81	2385.81	-259.29	0.29	438418.11	750485.21	

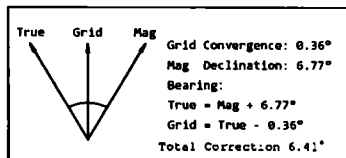
SD Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
ID (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	
13612.00	90.06	1.59	10951.10	2479.77	2479.77	-256.82	1.21	438512.07	750487.68	
13706.00	89.99	0.18	10951.06	2573.76	2573.76	-255.37	1.50	438606.06	750489.13	
13800.00	91.46	0.09	10949.87	2667.75	2667.75	-255.14	1.57	438700.05	750489.36	
13894.00	89.43	359.67	10949.14	2761.74	2761.74	-255.34	2.21	438794.04	750489.16	
13988.00	89.50	0.06	10950.02	2855.74	2855.74	-255.56	0.42	438888.04	750488.94	
14082.00	89.71	0.21	10950.67	2949.73	2949.73	-255.34	0.27	438982.03	750489.16	
14176.00	92.02	359.47	10949.25	3043.72	3043.72	-255.60	2.58	439076.02	750488.90	
14270.00	91.88	359.21	10946.05	3137.65	3137.65	-256.69	0.31	439169.95	750487.81	
14364.00	91.25	359.33	10943.48	3231.61	3231.61	-257.88	0.68	439263.91	750486.62	
14458.00	91.95	359.93	10940.86	3325.57	3325.57	-258.49	0.98	439357.87	750486.01	
14553.00	92.86	0.35	10936.87	3420.49	3420.49	-258.26	1.05	439452.79	750486.24	
14647.00	92.44	0.14	10932.53	3514.38	3514.38	-257.86	0.50	439546.68	750486.64	
14741.00	91.95	0.48	10928.93	3608.31	3608.31	-257.35	0.63	439640.61	750487.15	
14835.00	91.32	0.80	10926.25	3702.27	3702.27	-256.30	0.75	439734.57	750488.20	
14929.00	90.76	0.25	10924.54	3796.25	3796.25	-255.44	0.83	439828.55	750489.06	
15024.00	89.71	358.62	10924.15	3891.24	3891.24	-256.37	2.04	439923.54	750488.13	
15118.00	90.20	357.97	10924.22	3985.20	3985.20	-259.17	0.87	440017.50	750485.33	
15213.00	89.71	358.54	10924.30	4080.15	4080.15	-262.06	0.79	440112.45	750482.44	
15307.00	88.45	359.19	10925.81	4174.12	4174.12	-263.93	1.51	440206.42	750480.57	
15400.00	89.01	359.33	10927.87	4267.09	4267.09	-265.13	0.62	440299.39	750479.37	
15495.00	89.57	0.15	10929.05	4362.08	4362.08	-265.56	1.05	440394.38	750478.94	
15589.00	89.99	0.15	10929.41	4456.08	4456.08	-265.31	0.45	440488.38	750479.19	
15683.00	90.41	359.98	10929.08	4550.08	4550.08	-265.20	0.48	440582.38	750479.30	
15777.00	90.34	359.77	10928.46	4644.07	4644.07	-265.41	0.24	440676.37	750479.09	
15871.00	91.32	359.93	10927.10	4738.06	4738.06	-265.66	1.06	440770.36	750478.84	
15965.00	90.48	358.88	10925.63	4832.04	4832.04	-266.63	1.43	440864.34	750477.87	
16059.00	90.90	358.44	10924.49	4926.01	4926.01	-268.83	0.65	440958.31	750475.67	
16153.00	90.48	359.41	10923.36	5019.99	5019.99	-270.59	1.12	441052.29	750473.91	
16247.00	88.52	359.50	10924.18	5113.97	5113.97	-271.49	2.09	441146.27	750473.01	
16342.00	89.08	359.49	10926.17	5208.95	5208.95	-272.32	0.59	441241.25	750472.18	
16436.00	89.78	359.42	10927.11	5302.94	5302.94	-273.22	0.75	441335.24	750471.28	
16530.00	90.69	359.74	10926.72	5396.94	5396.94	-273.91	1.03	441429.24	750470.59	
16624.00	88.73	359.26	10927.20	5490.93	5490.93	-274.73	2.15	441523.23	750469.77	
16718.00	89.78	359.26	10928.42	5584.91	5584.91	-275.94	1.12	441617.21	750468.56	
16812.00	90.41	359.33	10928.26	5678.90	5678.90	-277.10	0.67	441711.20	750467.40	
16906.00	88.45	359.30	10929.20	5772.88	5772.88	-278.22	2.09	441805.18	750466.28	
17000.00	89.57	359.26	10930.82	5866.86	5866.86	-279.40	1.19	441899.16	750465.10	
17095.00	90.55	359.40	10930.72	5961.85	5961.85	-280.51	1.04	441994.15	750463.99	
17189.00	90.76	358.91	10929.65	6055.84	6055.84	-281.90	0.57	442088.14	750462.60	
17283.00	89.36	357.80	10929.55	6149.79	6149.79	-284.60	1.90	442182.09	750459.90	
17377.00	90.34	358.13	10929.80	6243.73	6243.73	-287.94	1.10	442276.03	750456.56	
17471.00	90.20	358.30	10929.35	6337.69	6337.69	-290.86	0.23	442369.99	750453.64	
17566.00	89.92	358.18	10929.25	6432.64	6432.64	-293.78	0.32	442464.94	750450.72	
17660.00	88.66	358.32	10930.42	6526.59	6526.59	-296.65	1.35	442558.89	750447.85	
17755.00	88.66	358.44	10932.64	6621.53	6621.53	-299.34	0.13	442653.83	750445.16	
17849.00	89.22	358.50	10934.38	6715.48	6715.48	-301.85	0.60	442747.78	750442.65	
17943.00	90.20	359.94	10934.85	6809.46	6809.46	-303.13	1.85	442841.76	750441.37	
18038.00	90.90	0.43	10933.94	6904.46	6904.46	-302.82	0.90	442936.76	750441.68	
18132.00	91.32	0.66	10932.12	6998.43	6998.43	-301.93	0.51	443030.73	750442.57	
18226.00	88.80	0.77	10932.02	7092.42	7092.42	-300.75	2.68	443124.72	750443.75	
18320.00	89.08	0.68	10933.76	7186.40	7186.40	-299.56	0.31	443218.70	750444.94	
18414.00	89.71	0.52	10934.75	7280.38	7280.38	-298.58	0.69	443312.68	750445.92	
18508.00	90.27	0.63	10934.77	7374.38	7374.38	-297.64	0.61	443406.68	750446.86	
18524.00	90.34	0.42	10934.69	7390.38	7390.38	-297.49	1.38	443422.68	750447.01	Last WFT MWD Svy
18595.00	90.34	0.42	10934.26	7461.37	7461.37	-296.97	0.00	443493.67	750447.53	TD@18595' MD / PTB



Ghost Rider 22-15 FED COM 202H
Lea Co., New Mexico
H&P 605

Plan vs Actual



Plan Data for Ghost Rider 22-15 FED COM 202H

Field: Apache NM (Rad 83 NMEZ)
Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Site: Ghost Rider Pad 15
Unit: USFeet TVD Reference:
Company Name: Apache Corporation
Position: Northing: 436032.90USft Latitude: 32.196919°
 Easting: 750804.50USft Longitude: -103.656163°
North Reference: Grid Grid Convergence: 0.36°
Elevation Above VRD: 3590.00USft
Comment: Lea Co., NM

Slot: Ghost Rider 22-15 FED COM 202H

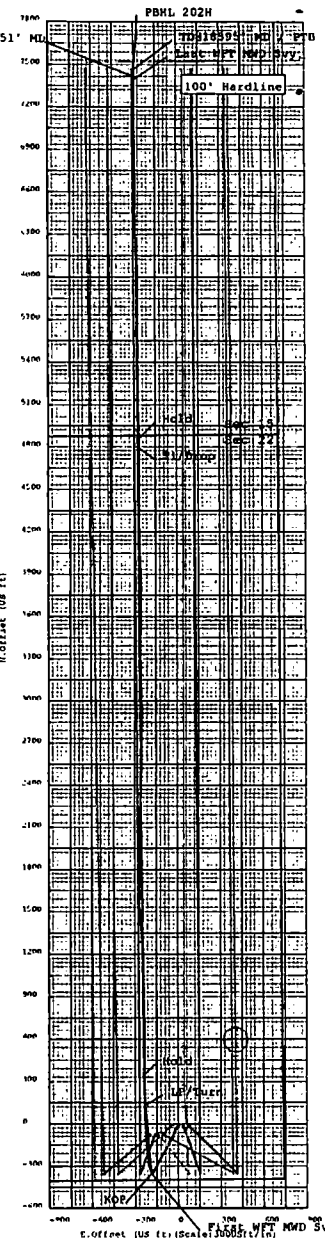
Position:
Offset is from Site centre
+N/-S: -0.60USft Northing: 436032.30USft Latitude: 32.196918°
+E/-W: -60.00USft Easting: 750744.50USft Longitude: -103.656357°
Elevation Above VRD: 3590.00USft

Well: Ghost Rider 22-15 FED COM 202H

Type: Main-Well
File Number: 13841018
Plan Folder: P3 Plan: P3:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 0.00°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
MagVar IFR 47862(nT) 6.77° 59.88° 2019-07-19
Comment: H&P 605



Cross HL @ 18551' MD

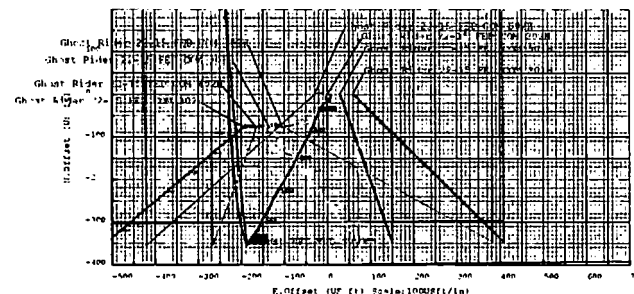


Plan Data for Ghost Rider 22-15 FED COM 202H

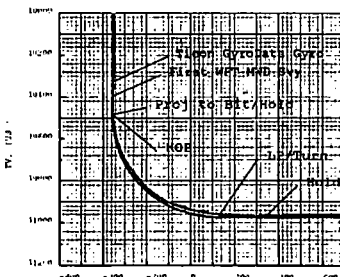
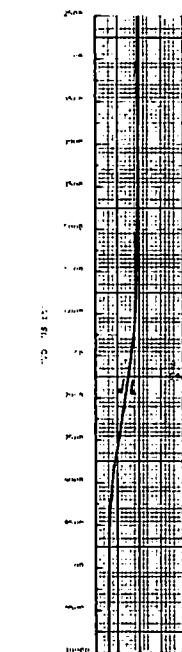
Plan Point Information:										
Dogleg Severity Unit: °/100.00ft Position offsets from Slot centre										
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS	Comments
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)	
10351.33	0.61	214.19	10325.30	-352.57	-186.77	435679.73	750557.73	-352.57	0.21	Tieon Svy
10510.00	0.61	214.19	10483.96	-353.96	-187.72	435678.34	750556.78	-353.96	0.00	Proj to Bit/Hold
10515.50	0.61	214.19	10489.46	-354.01	-187.76	435678.29	750556.74	-354.01	0.00	KOP
11273.62	90.50	355.20	10970.84	125.64	-231.30	436157.94	750513.20	125.64	12.00	LP/Turn
11491.32	90.50	359.55	10968.94	343.05	-241.26	436375.35	750503.24	343.05	2.00	Hold
15948.57	90.50	359.55	10930.11	4800.00	-275.94	440832.30	750468.56	4800.00	0.00	T1/Drop
15988.84	89.69	359.55	10930.04	4840.27	-276.25	440872.57	750468.25	4840.27	2.00	Hold
18616.49	89.69	359.55	10944.09	7467.00	-296.79	443500.10	750447.71	7467.00	0.00	PBHL 202H

Plan Data for Ghost Rider 22-15 FED COM 202H

Formation Point Information:			
Name	TVD Elevation (USft)	MD (USft)	
Rustler	1066.00	2550.00	1066.06
Salado	2306.00	1310.00	2306.15
Castile	3396.00	220.00	3396.18
Delaware	4876.00	-1260.00	4876.35
Avalon	5781.00	-5165.00	8806.94
1st BSC	9646.00	-6030.00	9673.01
1st BSS	9886.00	-6270.00	9911.02
2nd BSC	10046.00	-6430.00	10077.02
2nd BSS	10466.00	-6850.00	10492.04
3rd BSC	10966.00	-7350.00	11201.26



KB: 3616.00
GL: 3590.00



VP (10' Ft (Horizontal), 100' Scale) 200USft (ft)