

Apache Corporation
303 Veterans Airpark Lane, #3000
Midland, TX 79705

30 015 42549

AAO Federal SWD #001
Eddy County, New Mexico

0	0.00	0.00	0.00	0.00	0.00
60	0.60	0.60	1.05	0.63	0.63
260	2.00	0.52	0.91	1.82	2.45
460	2.00	0.49	0.86	1.72	4.17
645	1.85	0.54	0.95	1.75	5.91
815	1.70	0.58	1.02	1.73	7.64
1070	2.55	0.56	0.98	2.50	10.14
1239	1.69	1.10	1.93	3.25	13.39
1410	1.71	1.04	1.82	3.11	16.50
1666	2.56	0.88	1.54	3.94	20.45
1836	1.70	0.99	1.73	2.95	23.39
2092	2.56	1.85	3.24	8.29	31.68
2262	1.70	3.47	6.07	10.32	42.00
2432	1.70	3.84	6.72	11.42	53.43
2688	2.56	2.92	5.11	13.08	66.51
2859	1.71	2.10	3.68	6.28	72.79
3029	1.70	1.92	3.36	5.71	78.50
3284	2.55	1.12	1.96	5.00	83.50
3454	1.70	0.52	0.91	1.55	85.05
3624	1.70	0.75	1.31	2.23	87.28
3880	2.56	0.53	0.93	2.37	89.65
4050	1.70	0.15	0.26	0.45	90.10
4220	1.70	0.11	0.19	0.33	90.43
4433	2.13	0.30	0.53	1.12	91.55
4646	2.13	1.12	1.96	4.17	95.72
4731	0.85	1.89	3.31	2.81	98.53
4960	2.29	3.70	6.48	14.83	113.36

NM OIL CONSERVATION

ARTESIA DISTRICT

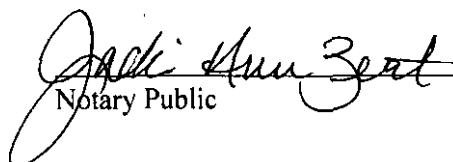
NOV 16 2015

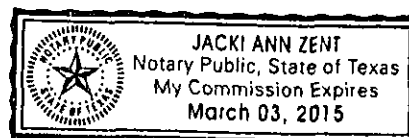
RECEIVED



Archie Brown - General Manager

The attached instrument was acknowledged before me on the 31st day of December, 2014 by
Archie Brown - General Manager, CapStar Drilling, Inc.


Notary Public





NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 16 2015
RECEIVED

Apache Corporation

Eddy County, NM (NAD27 NME)

AAO Federal SWD

#1

WB2 / Job #1412259

Survey: Phoenix MWD Survey

Standard Survey Report

15 December, 2014



Company:	Apache Corporation	Local Co-ordinate Reference:	Well #1
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3644.00usft (Capstar 133)
Site:	AAO Federal SWD	MD Reference:	KB @ 3644.00usft (Capstar 133)
Well:	#1	North Reference:	Grid
Wellbore:	WB2 / Job #1412259	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 133)	Database:	Compass 5000 GCR

Project	Eddy County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		AAO Federal SWD			
Site Position:		Northing:	646,192.50 usft	Latitude:	32° 46' 35.15814 N
From:	Map	Easting:	531,531.10 usft	Longitude:	104° 13' 50.68027 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.06 °

Well	#1					
Well Position	+N/-S	0.00 usft	Northing:	646,192.50 usft	Latitude:	32° 46' 35.15814 N
	+E/-W	0.00 usft	Easting:	531,531.10 usft	Longitude:	104° 13' 50.68027 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,629.00 usft

Wellbore	WB2 / Job #1412259				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	11/27/2014	7.68	60.49	48,477

Design		Surveys (Capstar 133)		
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 4,475.65
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	92.74

Survey Program	Date	12/15/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
60.70	4,475.65	Gyrodata Surveys (WB1 / Job #1412259)	NS-GYRO-MS	North sensing gyrocompassing m/s	
4,475.65	7,434.00	Phoenix MWD Survey (WB2 / Job #14122)	PHX+MWD+BGGM	PHX+MWD+BGGM v3:standard declination	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,475.65	0.25	330.96	4,473.98	-56.30	66.73	69.34	0.00	0.00	0.00	
Tie-on to Gyrodata Gyro Survey										
4,566.00	1.30	317.50	4,564.32	-55.38	65.94	68.51	1.17	1.16	-14.90	
First Phoenix MWD Survey										
4,609.00	1.40	352.10	4,607.31	-54.50	65.54	68.07	1.88	0.23	80.47	
4,651.00	2.00	17.00	4,649.29	-53.29	65.68	68.15	2.23	1.43	59.29	
4,694.00	2.50	28.40	4,692.26	-51.74	66.35	68.74	1.56	1.16	26.51	
4,737.00	3.20	37.00	4,735.20	-49.96	67.52	69.83	1.90	1.63	20.00	
4,822.00	4.70	37.30	4,820.00	-45.30	71.05	73.14	1.76	1.76	0.35	

Company:	Apache Corporation	Local Co-ordinate Reference:	Well #1
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3644.00usft (Capstar 133)
Site:	AAO Federal SWD	MD Reference:	KB @ 3644.00usft (Capstar 133)
Well:	#1	North Reference:	Grid
Wellbore:	WB2 / Job #1412259	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 133)	Database:	Compass 5000 GCR

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,907.00	5.10	30.50	4,904.69	-39.27	75.08	76.87	0.83	0.47	-8.00
4,993.00	4.30	17.10	4,990.40	-32.89	77.97	79.45	1.57	-0.93	-15.58
5,035.00	3.80	10.50	5,032.30	-30.02	78.69	80.03	1.63	-1.19	-15.71
5,121.00	2.70	345.60	5,118.16	-25.26	78.70	79.82	2.05	-1.28	-28.95
5,206.00	2.60	5.90	5,203.07	-21.40	78.40	79.34	1.10	-0.12	23.88
5,292.00	3.70	32.60	5,288.95	-17.12	80.10	80.83	2.10	1.28	31.05
5,377.00	4.00	59.70	5,373.76	-13.31	84.14	84.68	2.15	0.35	31.88
5,463.00	4.00	75.90	5,459.56	-11.07	89.64	90.06	1.31	0.00	18.84
5,548.00	3.60	89.40	5,544.37	-10.32	95.18	95.56	1.15	-0.47	15.88
5,633.00	3.00	120.60	5,629.24	-11.42	99.76	100.20	2.19	-0.71	36.71
5,719.00	2.00	114.70	5,715.15	-13.20	103.06	103.58	1.20	-1.16	-6.86
5,804.00	1.40	155.10	5,800.12	-14.76	104.85	105.43	1.53	-0.71	47.53
5,890.00	2.30	155.60	5,886.07	-17.28	106.00	106.71	1.05	1.05	0.58
5,975.00	1.90	145.40	5,971.01	-20.00	107.51	108.34	0.64	-0.47	-12.00
6,061.00	2.20	94.10	6,056.97	-21.29	109.96	110.86	2.09	0.35	-59.65
6,143.00	1.20	322.60	6,138.95	-20.72	111.01	111.88	3.81	-1.22	-160.37
6,231.00	2.50	292.80	6,226.90	-19.24	108.68	109.48	1.79	1.48	-33.86
6,317.00	1.30	299.20	6,312.85	-18.04	106.10	106.84	1.41	-1.40	7.44
6,403.00	1.30	298.30	6,398.83	-17.10	104.39	105.09	0.02	0.00	-1.05
6,488.00	1.40	296.30	6,483.81	-16.18	102.61	103.27	0.13	0.12	-2.35
6,574.00	1.50	293.90	6,569.78	-15.26	100.64	101.26	0.14	0.12	-2.79
6,659.00	1.50	334.70	6,654.75	-13.81	99.15	99.70	1.23	0.00	48.00
6,744.00	1.70	8.40	6,739.72	-11.55	98.86	99.30	1.11	0.24	39.65
6,826.00	1.80	25.40	6,821.68	-9.19	99.59	99.91	0.64	0.12	20.73
6,914.00	2.10	34.30	6,909.63	-6.61	101.09	101.29	0.48	0.34	10.11
6,999.00	2.10	41.60	6,994.58	-4.16	103.00	103.08	0.31	0.00	8.59
7,085.00	1.80	62.60	7,080.53	-2.36	105.25	105.24	0.89	-0.35	24.42
7,170.00	1.40	81.60	7,165.49	-1.59	107.46	107.41	0.78	-0.47	22.35
7,255.00	0.80	122.10	7,250.48	-1.75	108.99	108.95	1.11	-0.71	47.65
7,340.00	1.30	157.50	7,335.47	-2.96	109.86	109.88	0.94	0.59	41.65
7,383.00	1.50	170.00	7,378.45	-3.96	110.15	110.21	0.85	0.47	29.07
Last Phoenix MWD Survey									
7,434.00	1.50	170.00	7,429.44	-5.28	110.38	110.50	0.00	0.00	0.00
Projection to Bit									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,475.65	4,473.98	-56.30	66.73	Tie-on to Gyrodata Gyro Survey
4,566.00	4,564.32	-55.38	65.94	First Phoenix MWD Survey
7,383.00	7,378.45	-3.96	110.15	Last Phoenix MWD Survey
7,434.00	7,429.44	-5.28	110.38	Projection to Bit

Company:	Apache Corporation	Local Co-ordinate Reference:	Well #1
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3644.00usft (Capstar 133)
Site:	AAO Federal SWD	MD Reference:	KB @ 3644.00usft (Capstar 133)
Well:	#1	North Reference:	Grid
Wellbore:	WB2 / Job #1412259	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 133)	Database:	Compass 5000 GCR

Checked By: _____	Approved By: _____	Date: _____
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Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1412259

OPERATOR

Apache

WELL NAME

AAO Federal SWD #1 WB2

COUNTY & STATE

Eddy County, New Mexico

API WELL NUMBER

30-015-42549

PROPOSED DIRECTION

92.74°

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
4,475.65 ft	4,473.98 ft	0.25	330.96	-56.30 ft	66.73 ft	Gyro

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
6-Dec-14	4,566.00 ft	1.30	317.50

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
12-Dec-14	7,383.00 ft	1.50	170.00

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
12-Dec-14	7,434.00 ft	1.50	170.00

Joe Bass

PRINT YOUR NAME ABOVE

Joe Bass

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	
	7.63
DECLINATION OR GRID	GRID

12-Dec

TODAY'S DATE

MWD SUPERVISOR 1

Joe Bass

DIRECTIONAL DRILLER 1

Brandon Coatney

MWD SUPERVISOR 2

N/A

DIRECTIONAL DRILLER 2

Steven Lewis

12329 Cutten Rd., Houston, Texas 777066

(713)337-0600 (Voice), (713)337-0599 (Fax)



NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 16 2015

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Apache Corporation

Eddy County, NM (NAD27 NME)

AAO Federal SWD

#1

WB2 / Job #1412259 / 1412552

Survey: Phoenix MWD Survey Job#1412552

Standard Survey Report

02 March, 2015





Survey Report



Company: Apache Corporation
 Project: Eddy County, NM (NAD27 NME)
 Site: AAO Federal SWD
 Well: #1
 Wellbore: WB2 / Job #1412259 / 1412552
 Design: Surveys (Capstar 133)

Local Co-ordinate Reference: Well #1
 TVD Reference: KB @ 3644.00usft (Capstar 133)
 MD Reference: KB @ 3644.00usft (Capstar 133)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Compass 5000 GCR

Project	Eddy County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	AAO Federal SWD			
Site Position:		Northing:	646,192.50 usft	Latitude: 32° 46' 35.15814 N
From:	Map	Easting:	531,531.10 usft	Longitude: 104° 13' 50.68027 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.06 °

Well	#1			
Well Position	+N/-S	0.00 usft	Northing:	646,192.50 usft
	+E/-W	0.00 usft	Easting:	531,531.10 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,629.00 usft

Wellbore	WB2 / Job #1412259 / 1412552				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	11/27/2014	7.68	60.49	48,477

Design	Surveys (Capstar 133)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	4,475.65
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	92.74	

Survey Program	Date 3/2/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
60.70	4,475.65	Gyrodata Surveys (WB1 / Job #1412259)	NS-GYRO-MS	North sensing gyrocompassing m/s
4,475.65	7,383.00	Phoenix MWD Survey Job#1412259 (WB2)	PHX+MWD+BGGM	PHX+MWD+BGGM v3:standard declination
7,482.00	8,656.00	Phoenix MWD Survey Job#1412552 (WB2)	PHX+MWD+BGGM	PHX+MWD+BGGM v3:standard declination

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,383.00	1.50	170.00	7,378.45	-3.96	110.15	110.21	0.00	0.00	0.00
Tie-on to 7383' MD Survey									
7,482.00	2.40	196.20	7,477.40	-7.23	109.79	110.01	1.26	0.91	26.46
First Phoenix MWD Survey									
7,577.00	2.50	196.90	7,572.31	-11.12	108.63	109.04	0.11	0.11	0.74
7,652.00	3.10	192.20	7,647.22	-14.67	107.73	108.31	0.86	0.80	-6.27
7,770.00	2.30	190.90	7,765.09	-20.11	106.61	107.45	0.68	-0.68	-1.10
7,865.00	1.10	193.00	7,860.04	-22.87	106.04	107.01	1.26	-1.26	2.21

Company: Apache Corporation
Project: Eddy County, NM (NAQ27 NME)
Site: AAO Federal SWD
Well: #1
Wellbore: WB2 / Job #1412259 / 1412552
Design: Surveys (Capstar 133)

Local Co-ordinate Reference: Well #1
TVD Reference: KB @ 3644.00usft (Capstar 133)
MD Reference: KB @ 3644.00usft (Capstar 133)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR

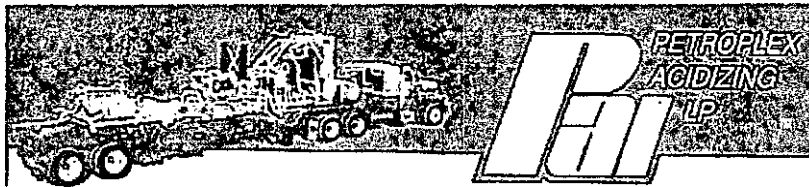
Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,961.00	1.10	143.90	7,956.03	-24.52	106.38	107.43	0.95	0.00	-51.15
8,056.00	1.50	95.80	8,051.01	-25.38	108.15	109.24	1.18	0.42	-50.83
8,151.00	2.50	124.60	8,145.95	-26.68	111.10	112.24	1.46	1.05	30.32
8,247.00	1.50	134.40	8,241.89	-28.75	113.72	114.96	1.10	-1.04	10.21
8,342.00	1.60	157.00	8,336.86	-30.84	115.12	116.47	0.65	0.11	23.79
8,437.00	1.60	162.30	8,431.82	-33.33	116.04	117.50	0.16	0.00	5.58
8,532.00	0.20	215.10	8,526.81	-34.72	116.35	117.88	1.57	-1.47	55.58
8,607.00	0.10	32.90	8,601.81	-34.78	116.31	117.84	0.40	-0.13	237.07
Last Phoenix MWD Survey									
8,656.00	0.10	32.90	8,650.81	-34.70	116.36	117.88	0.00	0.00	0.00
Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,383.00	7,378.45	-3.96	110.15	Tie-on to 7383' MD Survey
7,482.00	7,477.40	-7.23	109.79	First Phoenix MWD Survey
8,607.00	8,601.81	-34.78	116.31	Last Phoenix MWD Survey
8,656.00	8,650.81	-34.70	116.36	Projection to TD

Checked By: _____ Approved By: _____ Date: _____



APACHE

DAVID PEDROZA

Address/Phone

Treater: DAVID JUAREZ

5/28/2015

Well: 1

Field: AAO-FED-SWD

step rate



Treatment Report

page 1

Customer:	APACHE	Ticket#:	68308
Well Name & No.:	AAO FED SWD#1	Formation:	0.00
County:	EDDY	Date:	May 28, 2015
State:	NM	Well type:	Oil / Old / Stim.
Customer Information			
Address:	0.00		
City, State:	0.00		
Zip Code:	0		
Customer Representative:	DAVID PEDROZA		



Remarks

Arrive on Location: 7:00 AM
Depart Location: 12:00 PM
Total Hours: 5.00

	Depth	O.D.	Weight	I.D.	Volume	Bbls/linear ft
Tubing 1 length ft:	N/A		0	0.000	0.00 BBLS.	0.00000
Tubing 2 length ft:					0.00 BBLS.	0.00000
Casing 1 length ft:	N/A	5 1/2	0.00	0.000	##### BBLS.	0.00000
Casing 2 length ft:					0.00 BBLS.	0.00000
Open Hole length ft:		N/A	N/A		0.00 BBLS.	0.00000
Combined Depth ft:	#VALUE!				BBLS.	0.00000
Annular Vol:						

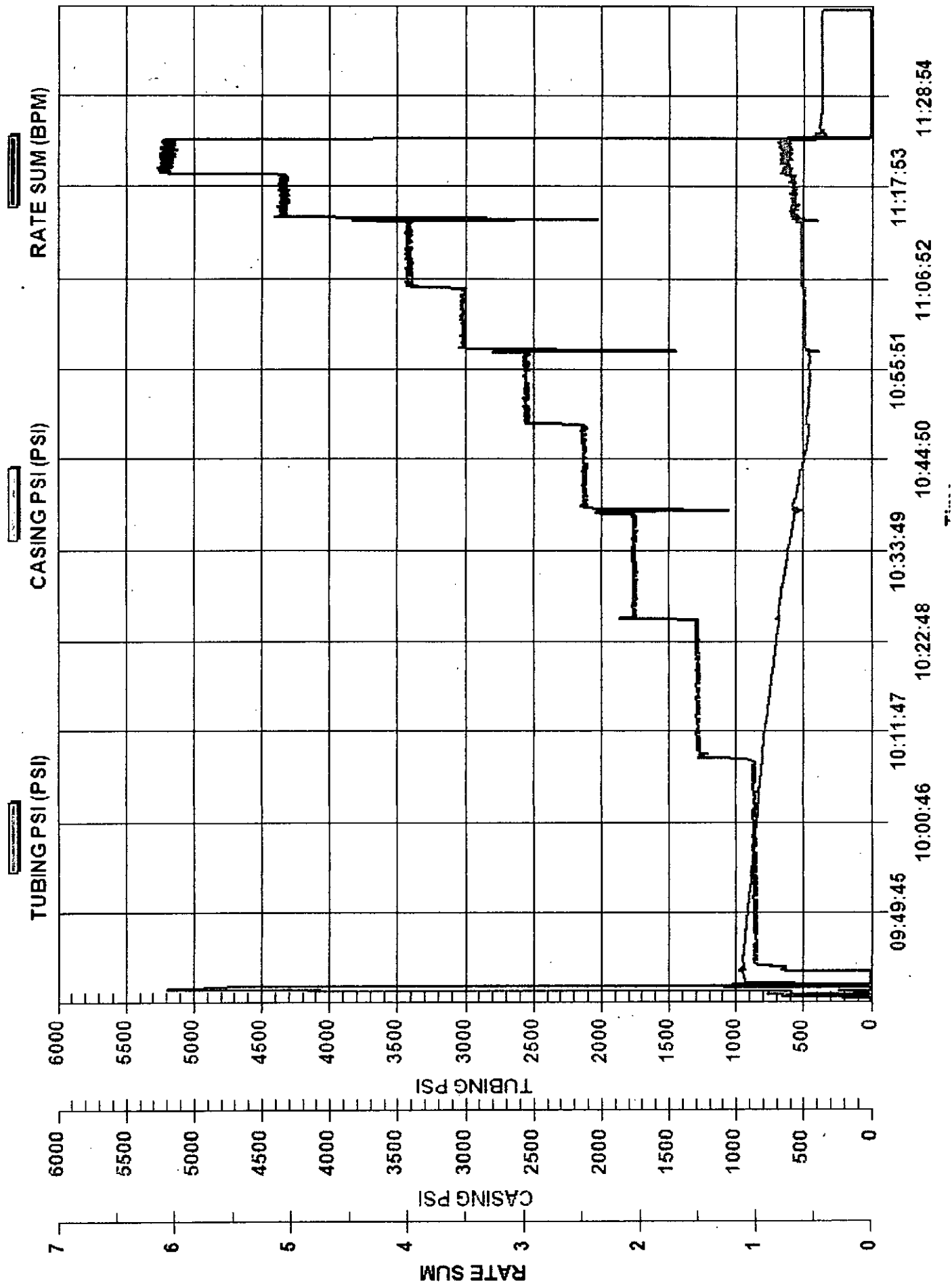
	Depth	Vol				
Top Per/ Open Hole:	N/A	#VALUE!	Maximum Pressure:	949	SIP:	410
Bottom Per/ Open Hole:	N/A	#VALUE!	Average Pressure:	697	5 min:	366
Number of Perfs:	0		Maximum Rate:	6.0	10 min:	364
Perf Size:	0.31 in.		Average Rate:	4.1	15 min:	365
Packer Depth:	N/A ft.		Fluid to Recover:	247.1	Proppant Total:	

TIME	SUP	Rate	State	Total	Comments
7:00:13 AM	0				SAFETY MEETING
8:48:15 AM	566	0.0	CASING	1.3	START WATER
8:53:27 AM	562	0.0	TEST	1.5	5 MIN.
8:58:12 AM	560	0.0		1.5	10 MIN.
9:03:22 AM	559	0.0		1.5	15 MIN.
9:08:08 AM	558	0.0		1.5	20 MIN
9:13:05 AM	558	0.0		1.5	25 MIN
9:18:10 AM	557	0.0		1.5	30 MIN
					STEP RATE
9:41:04 AM	5230	0.0		3.0	PRESSURE TESTED LINES
9:43:59 AM	949	0.0	1BPM	3.9	START WATER
9:48:45 AM	919	0.0		8.9	5-BBLS
9:53:36 AM	890	0.0		13.8	10-BBLS
9:58:38 AM	861	0.0		18.9	15-BBLS
10:03:36 AM	833	0.0		23.9	20-BBLS
10:08:29 AM	806	0.0		28.9	25-BBLS
10:09:07 AM	812	0.0	1.5	29.4	INCREASED RATE
10:12:24 AM	782	0.0		34.4	5-BBLS
10:15:46 AM	756	0.0		39.4	10-BBLS
10:19:05 AM	728	0.0		44.4	15-BBLS
10:22:27 AM	703	0.0		49.4	20-BBLS
10:25:46 AM	679	0.0		54.4	25-BBLS
10:26:19 AM	689	0.0	2.0	55.4	INCREASED RATE
10:28:55 AM	666	0.0		60.4	5-BBLS
10:31:06 AM	641	0.0		65.4	10-BBLS
10:33:30 AM	616	0.0		70.4	15-BBLS
10:35:58 AM	591	0.0		75.4	20-BBLS
10:38:22 AM	566	0.0		80.4	25-BBLS
10:39:25 AM	560	0.0	2.5	82.3	INCREASED RATE
10:41:21 AM	546	0.0	2.5	87.3	5-BBLS
10:43:24 AM	524	0.0	2.5	92.3	10-BBLS

Treatment Report Continuation

APACHE		AAO FED SWD#1		May 28, 2015		Page 2
Time	STP	Casing	Rate	Stage	Total	Comments
10:45:23 AM	498	0	2.5		97.3	15-BBLS
10:47:22 AM	466	0	2.5		102.3	20-BBLS
10:49:22 AM	455	0	2.5		107.3	25-BBLS
10:49:44 AM	475	0	3	3.0	108.0	INCREASED RATE
10:51:20 AM	467	0	3		113.0	5-BBLS
10:53:00 AM	458	0	3		118.0	10-BBLS
10:54:40 AM	457	0	3		123.0	15-BBLS
10:56:21 AM	458	0	3		128.0	20-BBLS
10:58:04 AM	455	0	3		133.0	25-BBLS
10:58:58 AM	487	0	3.5	3.5	135.3	INCREASED RATE
11:00:18 AM	492	0	3.5		140.3	5-BBLS
11:01:45 AM	485	0	3.5		145.3	10-BBLS
11:03:08 AM	486	0	3.5		150.3	15-BBLS
11:04:33 AM	486	0	3.5		155.3	20-BBLS
11:05:57 AM	487	0	3.5		160.3	25-BBLS
11:06:28 AM	509	0	4	4	162.0	INCREASED RATE
11:08:00 AM	518	0	4		167.0	5-BBLS
11:08:50 AM	513	0	4		172.0	10-BBLS
11:10:07 AM	514	0	4		177.0	15-BBLS
11:11:24 AM	517	0	4.0		182.0	20-BBLS
11:12:39 AM	516	0	4		187.0	25-BBLS
11:14:47 AM	550	0	5	5	194.8	INCREASED RATE
11:15:38 AM	560	0	5		199.7	5-BBLS
11:16:36 AM	584	0	5		204.8	10-BBLS
11:17:33 AM	576	0	5		209.8	15-BBLS
11:18:31 AM	579	0	5		214.8	20-BBLS
11:19:31 AM	560	0	5		219.8	25-BBLS
11:19:54 AM	629	0	6	6	221.0	INCREASED RATE
11:20:38 AM	619	0	6		226.0	5-BBLS
11:21:25 AM	620	0	6		231.0	10-BBLS
11:22:16 AM	631	0	6		236.0	15-BBLS
11:23:07 AM	640	0	6		241.0	20-BBLS
11:23:56 AM	632	0	6		246.0	25-BBLS
11:24:31 AM	420	0	0		247.1	SHUTDOWN
11:29:03 AM	366	0	0		247.1	5 MIN.
11:34:25 AM	364	0	0		247.1	10 MIN.
11:39:30 AM	365	0	0		247.1	15 MIN.

APACHE-AAO-FED-SWD-1---5-28-15-STEP-RATE





PERMIAN REGION

OPERATED NEW WELL DATA FORM

Basic Well Data:

Well Name	AAO Fed. #1 SWD	District	Artesia
Operator	Apache Corporation	State	NM
Location	AAO Fed. South Btty/ SWD Btty	County	Eddy
Property Number	CF701023	Sales Type	
AFE Number	11-14-2308-CP	Pumper:	Bobby Buffington
Apache W. I.		API #:	
Does Flow Constitute Initial Production From Well:		N.R.I.	

Production Data:

First Flow Date	9/24/2015	Time Online:	12:00 PM
Oil/Cond. (BOPD)	0	Water (BPD)	4500
Gas (8/8th) MCF/D	0	FTP/SICP (psig)	750
Prod Method (Flow/Pump)	H-Pump	Formation	

Pipeline & Purchaser Data:

Gas Gatherer	N/A	Common Tank Battery	AAO Fed South Btty
Oil Gatherer	N/A	Name Disposal	AAO Fed. #1 SWD
Water Transfer/Truck	Pipeline		
System Name	SWD	If Common Battery, Name of Battery	AAO Fed South Btty

Number of Tanks & Size		Treater:	
Additional:			
Separator: Size & BTU	Size:	BTU:	Additional:
Gathering Fee		Sys. Fuel	Comp Fuel
Gas Purchaser			Comp Fee
Processed		Oil Purchaser	
Comments:		NGL's to Apache	

Prepared By:	Bobby Buffington	Phone:	575-441-6019	Date:	9/25/2015
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