

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

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.*5. Lease Serial No.
NMLC029435B

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
NFE FEDERAL COM 48H2. Name of Operator
APACHE CORPORATIONContact: SORINA FLORES
E-Mail: sorina.flores@apachecorp.com9. API Well No.
30-015-434423a. Address
303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432-818-116710. Field and Pool, or Exploratory
CEDAR LAKE; GLORIETA-YESO

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 6 T17S R31E Mer NMP SWNW 1915FNL 330FWL
32.865372 N Lat, 103.915190 W Lon

11. County or Parish, and State

EDDY 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 A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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.)

BLM-CO-1463 NATIONWIDE; NMB000736

FOR NFE FEDERAL COM 48H(30-015-43442), APACHE REQUEST TO EXTEND LATERAL INTO SECTION 5. NEW PROPOSED TVD/MD BELOW; NEW BHP LISTED BELOW. CMT WILL REMAIN AS APPROVED ON APD. BOP, MUD PROGRAM, LOGGING WILL REMAIN SAME AS APPROVED ON SUNDRY ELECT SUBM #322655:

NEW TVD: 5304' MD: 10209' LP: 5202' TVD

NEW PROD CSG STRING:

8.5": 0'-4694'

8.5": 4694'-10209'

*Prod csg will be tapered string w/7" csg f/surf to KOP

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL****NM OIL CONSERVATION**

14. I hereby certify that the foregoing is true and correct.		ARTESIA DISTRICT	
Electronic Submission #324082 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by KENNETH RENNICK on 11/21/2015 ()		NOV 30 2015	
Name (Printed/Typed) SORINA FLORES	Title SUBMITTING CONTACT	RECEIVED	
Signature (Electronic Submission)	Date 11/19/2015		

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
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 _____	APPROVED PETROLEUM ENGINEER NOV 23 2015 Kenneth Rennick
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.		BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #324082 that would not fit on the form

32. Additional remarks, continued

(cmt thru stage tool f/KOP to 3000')

BOP:

Hole: 12-1/4" Size: 13-5/8" WP: 3M Annular Test to: 2M

Hole: 8-1/2" Size: 11" WP: 3M Annular, Blind, Pipe Test to: 2M

MUD PROGRAM:

Int Shoe -TD: Brine Wgt: 8.6-10.2 Visc: 28-29 Wtr Loss: N/C

LOGGING:

Mud Log: Interval: 4694'-TD

NEW DRLG CONDITIONS:

BHP @ deepest TVD: 2334psi

****New directional plan attached; NEW C-102 ATTACHED****



EXPLORING WHAT'S POSSIBLE

Project: Eddy County, NM (NAD27 NME)
Site: NFE Federal COM
Well: #48H
Wellbore: OH
Design: Plan #3 11-18-15
Rig: Capstar 119

PHOENIX
TECHNOLOGY SERVICES

Estimates to Old North
True North: 0.23°
Magnetic North: 7.41°
Magnetic Field
Strength: 48.78
Old Angle: 60.78°
Date: 11/18/2015
Model: HDGM

WELL DETAILS

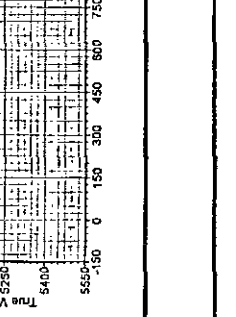
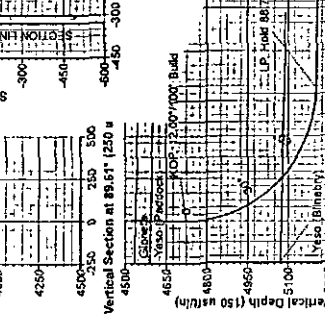
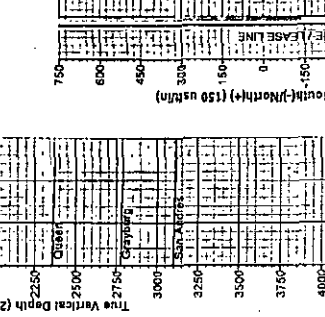
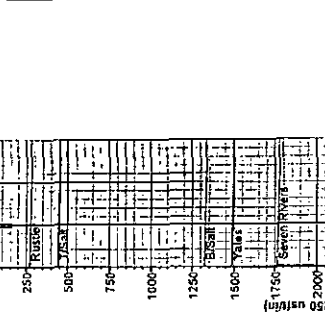
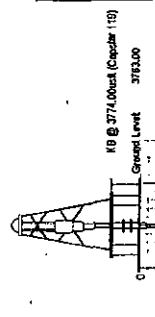
Wellbore	Formation	Depth	Interval	Remarks
MP-01 NFE Fed #48H	Yucca	0.00	1.00	Top of Yucca
MP-01 NFE Fed #48H	Yucca	1.00	2.00	Top of Yucca
MP-01 NFE Fed #48H	Yucca	2.00	3.00	Top of Yucca
MP-01 NFE Fed #48H	Yucca	3.00	4.00	Top of Yucca
MP-01 NFE Fed #48H	Yucca	4.00	5.00	Top of Yucca
MP-01 NFE Fed #48H	Yucca	5.00	6.00	Top of Yucca
MP-01 NFE Fed #48H	Yucca	6.00	7.00	Top of Yucca
MP-01 NFE Fed #48H	Yucca	7.00	8.00	Top of Yucca
MP-01 NFE Fed #48H	Yucca	8.00	9.00	Top of Yucca
MP-01 NFE Fed #48H	Yucca	9.00	10.00	Top of Yucca

SECTION DETAILS

Sec	MD	Inc	Asz	TVD	Chg	True	Target	Annulation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	474.65	0.00	0.00	474.65	0.00	0.00	0.00	KOP: 12.00' 100' Budd
3	568.39	83.77	89.61	502.00	3.3	467.19	12.00	LP: Hole 83.77' W
4	10283.90	83.77	89.61	534.00	35.5	5711.50	0.00	TD at 10283.90' MD

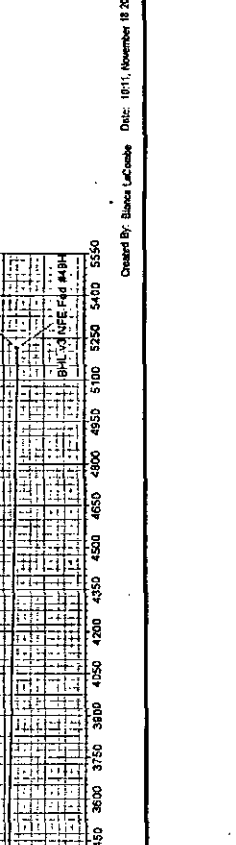
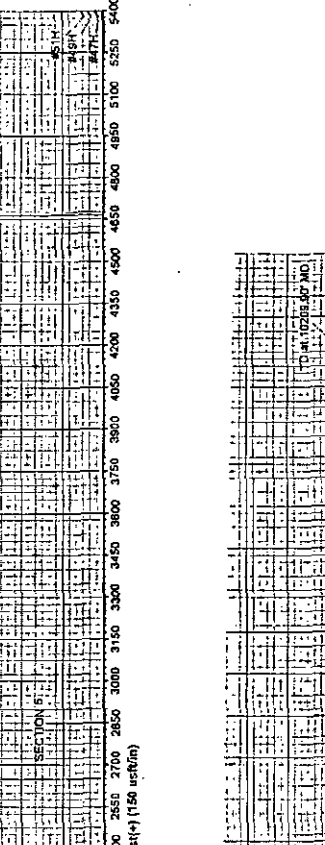
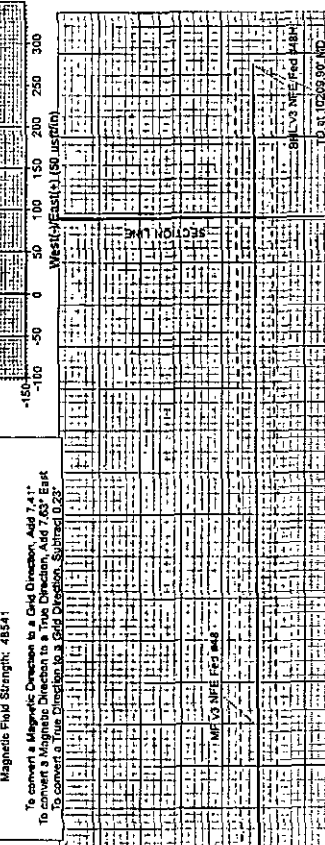
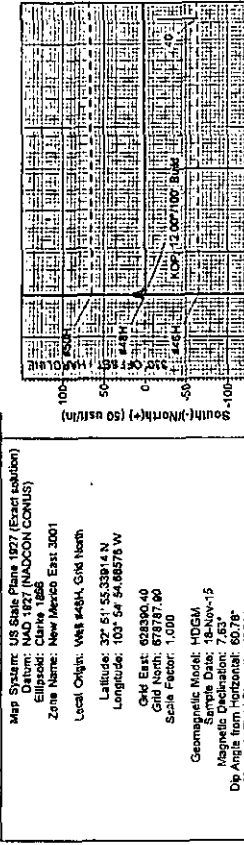
DESIGN TARGET DETAILS

Name	TVD	NLS	East	North	East	North	Latitude	Longitude	Shape
MP-01 NFE Fed #48H	5253.00	19.35	744.13	67867.25	32° 51' 55.41002 N	103° 54' 21.31603 W	32° 51' 55.41002 N	103° 54' 21.31603 W	Pent
MP-01 NFE Fed #48H	5304.00	19.35	744.13	67867.25	32° 51' 55.41002 N	103° 54' 21.31603 W	32° 51' 55.41002 N	103° 54' 21.31603 W	Pent
MP-01 NFE Fed #48H	5304.00	19.35	744.13	67867.25	32° 51' 55.41002 N	103° 54' 21.31603 W	32° 51' 55.41002 N	103° 54' 21.31603 W	Pent



FORMATION TOP DETAILS

Top Depth	Formation	Depth	Interval	Remarks
12.00	Yucca	0.00	1.00	Top of Yucca
12.00	Yucca	1.00	2.00	Top of Yucca
12.00	Yucca	2.00	3.00	Top of Yucca
12.00	Yucca	3.00	4.00	Top of Yucca
12.00	Yucca	4.00	5.00	Top of Yucca
12.00	Yucca	5.00	6.00	Top of Yucca
12.00	Yucca	6.00	7.00	Top of Yucca
12.00	Yucca	7.00	8.00	Top of Yucca
12.00	Yucca	8.00	9.00	Top of Yucca
12.00	Yucca	9.00	10.00	Top of Yucca





Apache Corporation

Eddy County, NM (NAD27 NME)

NFE Federal COM

#48H

OH

Plan: Plan #3 11-18-15

Standard Planning Report

18 November, 2015





Phoenix Technology Services LP Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #48H
Company:	Apache Corporation	TVD Reference:	KB @ 3774.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3774.00usft (Capstar 119)
Site:	NFE Federal COM	North Reference:	Grid
Well:	#48H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3 11-18-15		

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	NFE Federal COM
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Site Position:	Map	Northing:	673,264.70 usft	Latitude:	32° 51' 0.49036 N
From:		Easting:	633,303.50 usft	Longitude:	103° 53' 57.34966 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.24 °

Well:	#48H					
Well Position	+N/-S	5,523.20 usft	Northing:	678,787.90 usft	Latitude:	32° 51' 55.33914 N
	+E/-W	-4,913.10 usft	Easting:	628,390.40 usft	Longitude:	103° 54' 54.68576 W
Position Uncertainty	0.00 usft	Wellhead Elevation:		Ground Level:	3,763.00 usft	

Wellbore	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	11/18/2015	7.63	60.78	48,541

Design	Plan #3 11-18-15
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Audit Notes:

Version:	Phase:	PLAN	Tie On Depth:	0.00
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	89.61

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,724.65	0.00	0.00	4,724.65	0.00	0.00	0.00	0.00	0.00	0.00	
5,464.39	88.77	89.61	5,202.00	3.18	467.19	12.00	12.00	12.11	89.61	
10,209.90	88.77	89.61	5,304.00	35.50	5,211.50	0.00	0.00	0.00	0.00	BHL v3 NFE Fed #



Phoenix Technology Services LP Planning Report



Database:	Compass 5000 GCR	Local/Co-ordinate Reference:	Well #48H
Company:	Apache Corporation	TVD Reference:	KB @ 3774.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27 NME)	MDI Reference:	KB @ 3774.00usft (Capstar 119)
Site:	NFE Federal COM	North Reference:	Grid
Well:	#48H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3 11-18-15		

Planned 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,724.65	0.00	0.00	4,724.65	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 12.00°/100' Build									
4,800.00	9.04	89.61	4,799.69	0.04	5.93	5.93	12.00	12.00	0.00
4,900.00	21.04	89.61	4,896.08	0.22	31.84	31.84	12.00	12.00	0.00
5,000.00	33.04	89.61	4,984.99	0.53	77.22	77.22	12.00	12.00	0.00
5,100.00	45.04	89.61	5,062.52	0.95	140.09	140.09	12.00	12.00	0.00
5,200.00	57.04	89.61	5,125.28	1.48	217.71	217.71	12.00	12.00	0.00
5,300.00	69.04	89.61	5,170.53	2.09	306.68	306.68	12.00	12.00	0.00
5,400.00	81.04	89.61	5,196.29	2.75	403.11	403.12	12.00	12.00	0.00
5,464.39	88.77	89.61	5,202.00	3.18	467.19	467.20	12.00	12.00	0.00
LP, Hold 88.77° Inc									
5,500.00	88.77	89.61	5,202.77	3.42	502.80	502.81	0.00	0.00	0.00
5,600.00	88.77	89.61	5,204.92	4.11	602.77	602.78	0.00	0.00	0.00
5,700.00	88.77	89.61	5,207.07	4.79	702.74	702.76	0.00	0.00	0.00
5,800.00	88.77	89.61	5,209.22	5.47	802.72	802.74	0.00	0.00	0.00
5,900.00	88.77	89.61	5,211.37	6.15	902.69	902.72	0.00	0.00	0.00
6,000.00	88.77	89.61	5,213.52	6.83	1,002.67	1,002.69	0.00	0.00	0.00
6,100.00	88.77	89.61	5,215.67	7.51	1,102.64	1,102.67	0.00	0.00	0.00
6,200.00	88.77	89.61	5,217.82	8.19	1,202.62	1,202.65	0.00	0.00	0.00
6,300.00	88.77	89.61	5,219.96	8.87	1,302.59	1,302.62	0.00	0.00	0.00
6,400.00	88.77	89.61	5,222.11	9.55	1,402.57	1,402.60	0.00	0.00	0.00
6,500.00	88.77	89.61	5,224.26	10.24	1,502.54	1,502.58	0.00	0.00	0.00
6,600.00	88.77	89.61	5,226.41	10.92	1,602.52	1,602.55	0.00	0.00	0.00
6,700.00	88.77	89.61	5,228.56	11.60	1,702.49	1,702.53	0.00	0.00	0.00
6,800.00	88.77	89.61	5,230.71	12.28	1,802.47	1,802.51	0.00	0.00	0.00
6,900.00	88.77	89.61	5,232.86	12.96	1,902.44	1,902.48	0.00	0.00	0.00
7,000.00	88.77	89.61	5,235.01	13.64	2,002.41	2,002.46	0.00	0.00	0.00
7,100.00	88.77	89.61	5,237.16	14.32	2,102.39	2,102.44	0.00	0.00	0.00
7,200.00	88.77	89.61	5,239.31	15.00	2,202.36	2,202.41	0.00	0.00	0.00
7,300.00	88.77	89.61	5,241.46	15.68	2,302.34	2,302.39	0.00	0.00	0.00
7,400.00	88.77	89.61	5,243.61	16.36	2,402.31	2,402.37	0.00	0.00	0.00
7,500.00	88.77	89.61	5,245.76	17.05	2,502.29	2,502.35	0.00	0.00	0.00
7,600.00	88.77	89.61	5,247.91	17.73	2,602.26	2,602.32	0.00	0.00	0.00
7,700.00	88.77	89.61	5,250.05	18.41	2,702.24	2,702.30	0.00	0.00	0.00
7,800.00	88.77	89.61	5,252.20	19.09	2,802.21	2,802.28	0.00	0.00	0.00
7,900.00	88.77	89.61	5,254.35	19.77	2,902.19	2,902.25	0.00	0.00	0.00
8,000.00	88.77	89.61	5,256.50	20.45	3,002.16	3,002.23	0.00	0.00	0.00
8,100.00	88.77	89.61	5,258.65	21.13	3,102.13	3,102.21	0.00	0.00	0.00
8,200.00	88.77	89.61	5,260.80	21.81	3,202.11	3,202.18	0.00	0.00	0.00
8,300.00	88.77	89.61	5,262.95	22.49	3,302.08	3,302.16	0.00	0.00	0.00
8,400.00	88.77	89.61	5,265.10	23.17	3,402.06	3,402.14	0.00	0.00	0.00
8,500.00	88.77	89.61	5,267.25	23.86	3,502.03	3,502.11	0.00	0.00	0.00
8,600.00	88.77	89.61	5,269.40	24.54	3,602.01	3,602.09	0.00	0.00	0.00
8,700.00	88.77	89.61	5,271.55	25.22	3,701.98	3,702.07	0.00	0.00	0.00
8,800.00	88.77	89.61	5,273.70	25.90	3,801.96	3,802.05	0.00	0.00	0.00
8,900.00	88.77	89.61	5,275.85	26.58	3,901.93	3,902.02	0.00	0.00	0.00
9,000.00	88.77	89.61	5,278.00	27.26	4,001.91	4,002.00	0.00	0.00	0.00
9,100.00	88.77	89.61	5,280.14	27.94	4,101.88	4,101.98	0.00	0.00	0.00
9,200.00	88.77	89.61	5,282.29	28.62	4,201.86	4,201.95	0.00	0.00	0.00
9,300.00	88.77	89.61	5,284.44	29.30	4,301.83	4,301.93	0.00	0.00	0.00
9,400.00	88.77	89.61	5,286.59	29.98	4,401.80	4,401.91	0.00	0.00	0.00
9,500.00	88.77	89.61	5,288.74	30.67	4,501.78	4,501.88	0.00	0.00	0.00
9,600.00	88.77	89.61	5,290.89	31.35	4,601.75	4,601.86	0.00	0.00	0.00



Phoenix Technology Services LP Planning Report



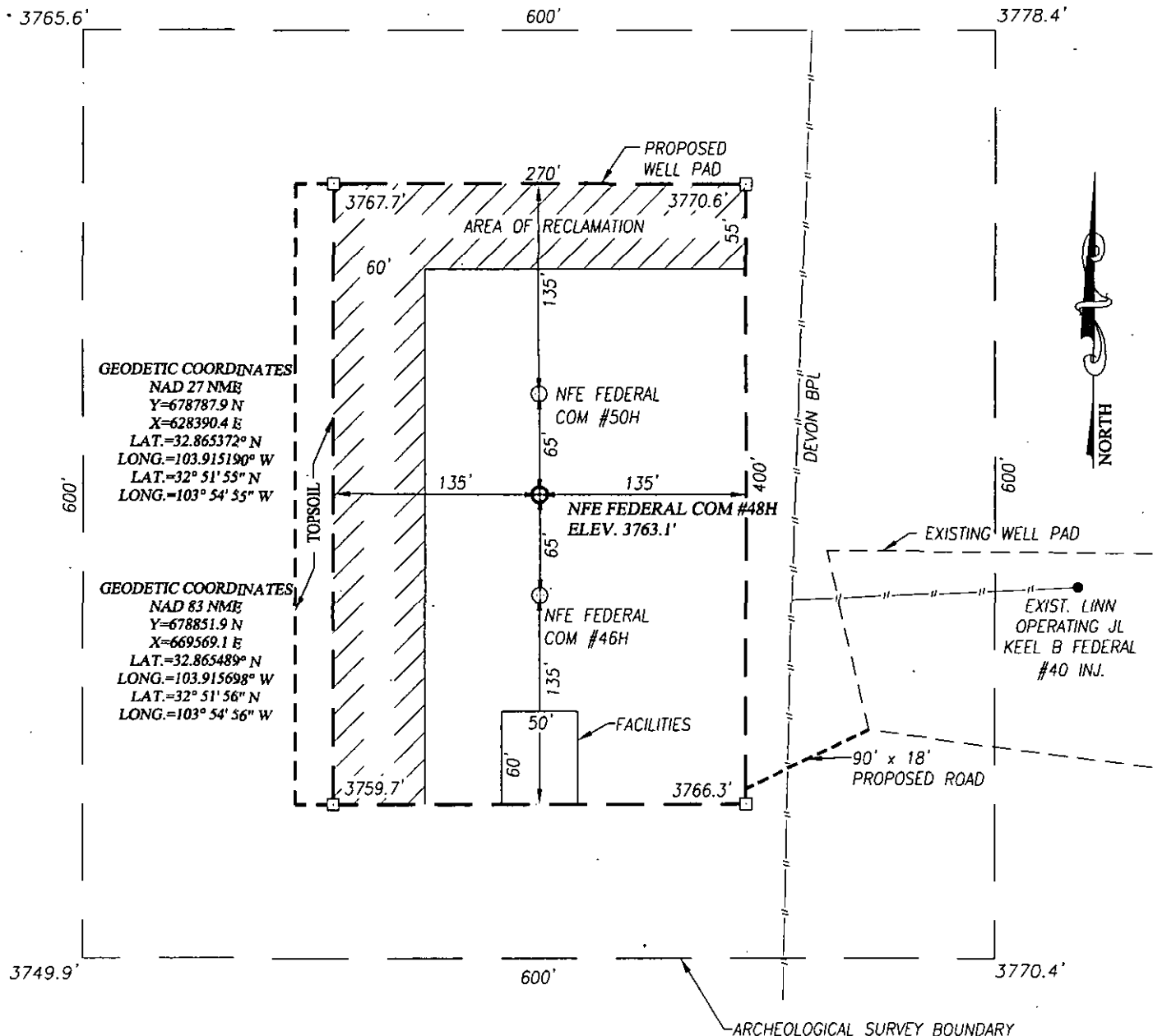
Database:	Compass 5000 GCR	Local/Co-ordinate Reference:	Well #48H
Company:	Apache Corporation	TVD/Reference:	KB @ 3774.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27 NME)	MD/Reference:	KB @ 3774.00usft (Capstar 119)
Site:	NFE Federal COM	North/Reference:	Grid
Well:	#48H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3 11-18-15		

Planned 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)
9,700.00	88.77	89.61	5,293.04	32.03	4,701.73	4,701.84	0.00	0.00	0.00
9,800.00	88.77	89.61	5,295.19	32.71	4,801.70	4,801.81	0.00	0.00	0.00
9,900.00	88.77	89.61	5,297.34	33.39	4,901.68	4,901.79	0.00	0.00	0.00
10,000.00	88.77	89.61	5,299.49	34.07	5,001.65	5,001.77	0.00	0.00	0.00
10,100.00	88.77	89.61	5,301.64	34.75	5,101.63	5,101.74	0.00	0.00	0.00
10,200.00	88.77	89.61	5,303.79	35.43	5,201.60	5,201.72	0.00	0.00	0.00
10,209.90	88.77	89.61	5,304.00	35.50	5,211.50	5,211.62	0.00	0.00	0.00
TD at 10209.90' MD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
MP v3 NFE Fed #48	0.00	0.00	5,253.00	19.35	2,840.83	678,807.24	631,231.23	32° 51' 55.41803 N	03° 54' 21.37832 W
- plan misses target center by 0.03usft at 7838.63usft MD (5253.03 TVD, 19.35 N, 2840.83 E)									
- Point									
BHL v3 NFE Fed #48I	0.00	0.00	5,304.00	35.50	5,211.50	678,823.40	633,601.90	32° 51' 55.48204 N	03° 53' 53.58327 W
- plan hits target center									
- Point									

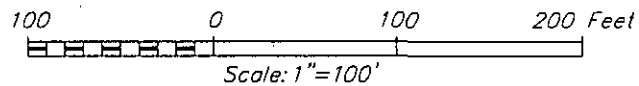
Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
274.00	274.00	Rustler		1.23	89.61
444.00	444.00	T/Salt		1.23	89.61
1,326.00	1,326.00	B/Salt		1.23	89.61
1,489.00	1,489.00	Yates		1.23	89.61
1,767.00	1,767.00	Seven Rivers		1.23	89.61
2,361.00	2,361.00	Queen		1.23	89.61
2,779.00	2,779.00	Grayburg		1.23	89.61
3,102.00	3,102.00	San Andres		1.23	89.61
4,539.00	4,539.00	Glorieta		1.23	89.61
4,594.00	4,594.00	Yeso (Paddock)		1.23	89.61
5,121.47	5,077.34	Yeso (Blinbry)		1.23	89.61

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
4,724.65	4,724.65	0.00	0.00	KOP, 12.00°/100' Build	
5,464.39	5,202.00	3.18	467.19	LP, Hold 88.77° Inc	
10,209.90	5,304.00	35.50	5,211.50	TD at 10209.90' MD	



DIRECTIONS TO NFE FEDERAL COM #48H:

FROM THE INTERSECTION OF U.S. HWY. 82 AND CO. RD. 220 (SQUARE LAKE), GO NORTH ON CO. RD. 220 APPROX. 3.7 MILES. TURN RIGHT AND GO NORTHEAST ON LEASE ROAD APPROX. 0.5 MILES. TURN RIGHT AND GO EAST APPROX. 0.2 MILES. THEN CONTINUE ON ROAD SOUTHEAST APPROX. 0.4 MILES. TURN RIGHT AND GO SOUTH APPROX. 0.2 MILES TO EXISTING LINN OPERATING INJECTION WELL, FROM THE SOUTHWEST CORNER OF THE LOCATION. FOLLOW STAKED ROAD 90 FEET SOUTHWEST TO THIS LOCATION.



APACHE CORPORATION

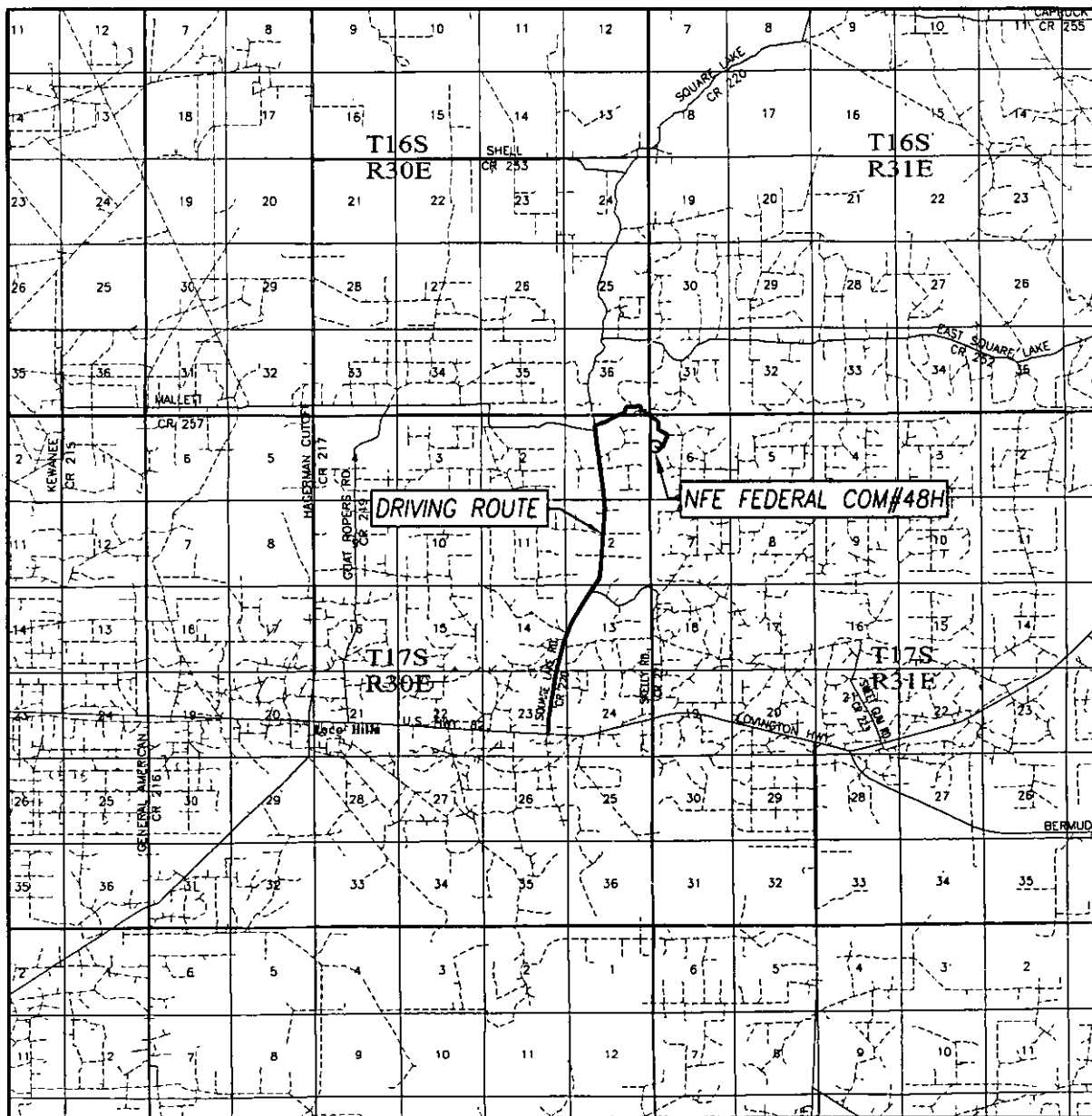
NFE FEDERAL COM #48H WELL
 LOCATED 1915 FEET FROM THE NORTH LINE
 AND 330 FEET FROM THE WEST LINE OF SECTION 6,
 TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz
 TBPLS# 10021000

Survey Date: 1/7/15	CAD Date: 1/29/15	Drawn By: LSL
W.O. No.: 15130284	Rev: .	Rel. W.O.: 14111416
		Sheet 1 of 1

VICINITY MAP



SCALE: 1" = 2 MILES

DRIVING ROUTE: SEE LOCATION VERIFICATION MAP

SEC. 6 TWP. 17-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1980' FNL & 330' FWL

ELEVATION 3759'

OPERATOR APACHE CORPORATION

LEASE NFE FEDERAL COM

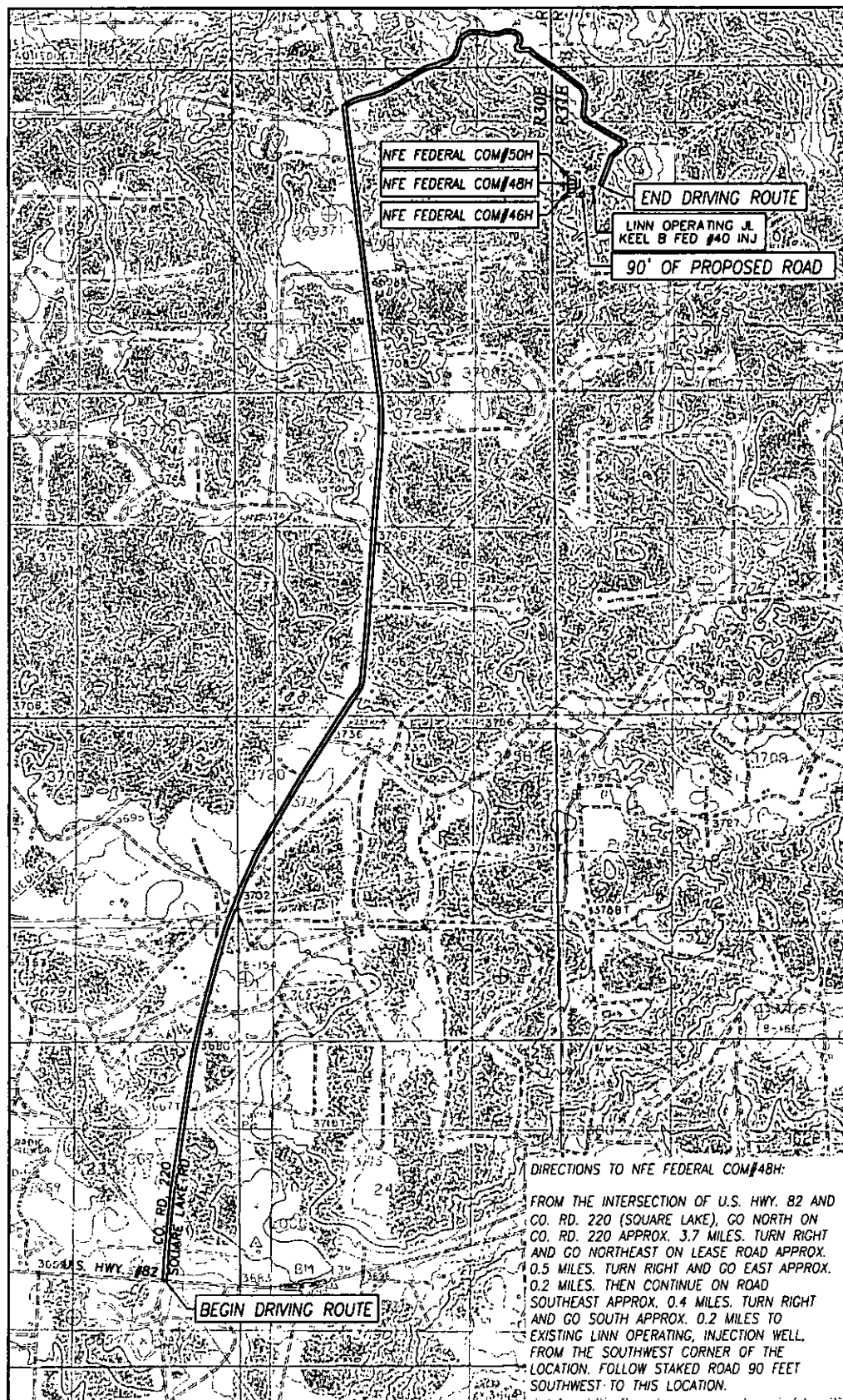


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LOCATION VERIFICATION MAP



SEC. 6 TWP. 17-S RGE. 31-E
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 1915' FNL & 330' FWL
 ELEVATION 3763'
 OPERATOR APACHE CORPORATION
 LEASE NFE FEDERAL COM
 U.S.G.S. TOPOGRAPHIC MAP
 LOCO HILLS, N.M. SURVEY N.M.P.M.

SCALE: 1" = 2000'

CONTOUR INTERVAL:
 LOCO HILLS, N.M. - 10'

DIRECTIONS TO NFE FEDERAL COM#48H:

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 CO. RD. 220 (SQUARE LAKE), GO NORTH ON
 CO. RD. 220 APPROX. 3.7 MILES. TURN RIGHT
 AND GO NORTHEAST ON LEASE ROAD APPROX.
 0.5 MILES. TURN RIGHT AND GO EAST APPROX.
 0.2 MILES. THEN CONTINUE ON ROAD
 SOUTHEAST APPROX. 0.4 MILES. TURN RIGHT
 AND GO SOUTH APPROX. 0.2 MILES TO
 EXISTING LINN OPERATING, INJECTION WELL.
 FROM THE SOUTHWEST CORNER OF THE
 LOCATION. FOLLOW STAKED ROAD 90 FEET
 SOUTHWEST TO THIS LOCATION.



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**NFE FEDERAL COM 48H
30-015-43442
Apache Corporation
Conditions of Approval**

Original COA still applies, except for the replacement of the cement fill behind the 7 x 5 1/2 inch production casing.

1. The minimum required fill of cement behind the 7 x 5 1/2 inch production casing is:

☒ Cement as proposed by operator. Operator shall provide method of verification. **Additional cement shall be required since excess is inadequate by 34% (AKA -34%).**

KGR 11212015