

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 ☐ Other

8. Well Name and No.

NFE FEDERAL COM 46H

2. Name of Operator

APACHE CORPORATION

Contact: SORINA FLORES

E-Mail: sorina.flores@apachecorp.com

9. API Well No.

30-015-43443

3a. Address

303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 79705

3b. Phone No. (include area code)

Ph: 432-818-1167

10. 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 1980FNL 330FWL
32.865193 N Lat, 103.915191 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 46H(30-015-43443), 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 #322653:

NEW TVD: 4871' MD: 9777' LP: 4769' TVD

NEW PROD CSG STRING (CHG IN PROD MD ONLY):

8.5": 0'-4261'

8.5": 4261'-9777'

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

Accepted for record
ED NIMOCDD/1/15**SEE ATTACHED FOR
CONDITIONS OF APPROVAL****NM OIL CONSERVATION**

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #324019 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 ()

ARTESIA DISTRICT

NOV 30 2015

Name (Printed/Typed) SORINA FLORES

Title SUBMITTING CONTACT

Signature

(Electronic Submission)

Date 11/18/2015

RECEIVED

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 _____	
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.		
** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **		

APPROVED
PETROLEUM ENGINEER
NOV 23 2015
Kenneth Rennick
BUREAU OF LAND MANAGEMENT
OPERATOR SUBMITTED
CARLSBAD FIELD OFFICE

Additional data for EC transaction #324019 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: 4261-TD

NEW DRLG CONDITIONS:

BHP @ deepest TVD: 2144psi

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



Phoenix Technology Services LP Planning Report



Database:	Compass 5000 GCR	Local Coordinate Reference:	Well #46H
Company:	Apache Corporation	TVD Reference:	KB @ 3770.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3770.00usft (Capstar 119)
Site:	NFE Federal COM	North Reference:	Grid
Well:	#46H	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			
Site Position:		Northing:	673,264.70 usft	Latitude:	32° 51' 0.49036 N
From:	Map	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:	#46H					
Well Position	+N/-S	5,458.20 usft	Northing:	678,722.90 usft	Latitude:	32° 51' 54.69595 N
	+E/-W	-4,912.90 usft	Easting:	628,390.60 usft	Longitude:	103° 54' 54.68644 W
Position Uncertainty	0.00 usft	Wellhead Elevation:		Ground Level:	3,759.00 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

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	
	4,291.61	0.00	0.00	4,291.61	0.00	0.00	0.00	0.00	0.00	0.00	
	5,033.36	89.01	89.61	4,769.00	3.20	469.20	12.00	12.00	12.08	89.61	
	7,405.06	89.01	89.61	4,810.00	19.35	2,840.49	0.00	0.00	0.00	0.00	MP v3 NFE Fed #4
	7,429.34	88.52	89.61	4,810.52	19.51	2,864.77	2.00	-2.00	0.00	180.00	
	9,777.19	88.52	89.61	4,871.00	35.50	5,211.79	0.00	0.00	0.00	0.00	BHL v3 NFE Fed #4



Apache Corporation

Eddy County, NM (NAD27 NME)

NFE Federal COM

#46H

OH

Plan: Plan #3 11-18-15

Standard Planning Report

18 November, 2015



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #46H
Company:	Apache Corporation	TVD Reference:	KB @ 3770.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3770.00usft (Capstar 119)
Site:	NFE Federal COM	North Reference:	Grid
Well:	#46H	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)	Bull 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
4,291.61	0.00	0.00	4,291.61	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 12.00°/100' Build									
4,300.00	1.01	89.61	4,300.00	0.00	0.07	0.07	12.00	12.00	0.00
4,400.00	13.01	89.61	4,399.07	0.08	12.25	12.25	12.00	12.00	0.00
4,500.00	25.01	89.61	4,493.45	0.30	44.76	44.76	12.00	12.00	0.00
4,600.00	37.01	89.61	4,579.00	0.66	96.18	96.18	12.00	12.00	0.00
4,700.00	49.01	89.61	4,651.99	1.12	164.26	164.26	12.00	12.00	0.00
4,800.00	61.01	89.61	4,709.24	1.68	246.03	246.03	12.00	12.00	0.00
4,900.00	73.01	89.61	4,748.23	2.30	337.91	337.92	12.00	12.00	0.00
5,000.00	85.01	89.61	4,767.26	2.97	435.90	435.91	12.00	12.00	0.00
5,033.36	89.01	89.61	4,769.00	3.20	469.20	469.21	12.00	12.00	0.00
LP, Hold 89.01° Inc									
5,100.00	89.01	89.61	4,770.16	3.65	535.83	535.85	0.00	0.00	0.00
5,200.00	89.01	89.61	4,771.88	4.33	635.82	635.83	0.00	0.00	0.00
5,300.00	89.01	89.61	4,773.61	5.01	735.80	735.82	0.00	0.00	0.00
5,400.00	89.01	89.61	4,775.34	5.69	835.78	835.80	0.00	0.00	0.00
5,500.00	89.01	89.61	4,777.07	6.37	935.76	935.79	0.00	0.00	0.00
5,600.00	89.01	89.61	4,778.80	7.05	1,035.75	1,035.77	0.00	0.00	0.00
5,700.00	89.01	89.61	4,780.53	7.73	1,135.73	1,135.76	0.00	0.00	0.00
5,800.00	89.01	89.61	4,782.26	8.42	1,235.71	1,235.74	0.00	0.00	0.00
5,900.00	89.01	89.61	4,783.98	9.10	1,335.69	1,335.73	0.00	0.00	0.00
6,000.00	89.01	89.61	4,785.71	9.78	1,435.68	1,435.71	0.00	0.00	0.00
6,100.00	89.01	89.61	4,787.44	10.46	1,535.66	1,535.70	0.00	0.00	0.00
6,200.00	89.01	89.61	4,789.17	11.14	1,635.64	1,635.68	0.00	0.00	0.00
6,300.00	89.01	89.61	4,790.90	11.82	1,735.63	1,735.67	0.00	0.00	0.00
6,400.00	89.01	89.61	4,792.63	12.50	1,835.61	1,835.65	0.00	0.00	0.00
6,500.00	89.01	89.61	4,794.36	13.18	1,935.59	1,935.64	0.00	0.00	0.00
6,600.00	89.01	89.61	4,796.08	13.86	2,035.57	2,035.62	0.00	0.00	0.00
6,700.00	89.01	89.61	4,797.81	14.54	2,135.56	2,135.61	0.00	0.00	0.00
6,800.00	89.01	89.61	4,799.54	15.23	2,235.54	2,235.59	0.00	0.00	0.00
6,900.00	89.01	89.61	4,801.27	15.91	2,335.52	2,335.58	0.00	0.00	0.00
7,000.00	89.01	89.61	4,803.00	16.59	2,435.50	2,435.56	0.00	0.00	0.00
7,100.00	89.01	89.61	4,804.73	17.27	2,535.49	2,535.55	0.00	0.00	0.00
7,200.00	89.01	89.61	4,806.46	17.95	2,635.47	2,635.53	0.00	0.00	0.00
7,300.00	89.01	89.61	4,808.18	18.63	2,735.45	2,735.52	0.00	0.00	0.00
7,400.00	89.01	89.61	4,809.91	19.31	2,835.44	2,835.50	0.00	0.00	0.00
7,405.06	89.01	89.61	4,810.00	19.35	2,840.49	2,840.56	0.00	0.00	0.00
Begin 2.00°/100' Drop									
7,429.34	88.52	89.61	4,810.52	19.51	2,864.77	2,864.83	2.00	-2.00	0.00
Hold 88.52° Inc									
7,500.00	88.52	89.61	4,812.34	19.99	2,935.40	2,935.47	0.00	0.00	0.00
7,600.00	88.52	89.61	4,814.92	20.67	3,035.37	3,035.44	0.00	0.00	0.00
7,700.00	88.52	89.61	4,817.49	21.35	3,135.33	3,135.41	0.00	0.00	0.00
7,800.00	88.52	89.61	4,820.07	22.03	3,235.30	3,235.37	0.00	0.00	0.00
7,900.00	88.52	89.61	4,822.65	22.71	3,335.26	3,335.34	0.00	0.00	0.00
8,000.00	88.52	89.61	4,825.22	23.40	3,435.23	3,435.31	0.00	0.00	0.00
8,100.00	88.52	89.61	4,827.80	24.08	3,535.19	3,535.27	0.00	0.00	0.00
8,200.00	88.52	89.61	4,830.37	24.76	3,635.16	3,635.24	0.00	0.00	0.00
8,300.00	88.52	89.61	4,832.95	25.44	3,735.12	3,735.21	0.00	0.00	0.00
8,400.00	88.52	89.61	4,835.53	26.12	3,835.08	3,835.17	0.00	0.00	0.00
8,500.00	88.52	89.61	4,838.10	26.80	3,935.05	3,935.14	0.00	0.00	0.00
8,600.00	88.52	89.61	4,840.68	27.48	4,035.01	4,035.11	0.00	0.00	0.00
8,700.00	88.52	89.61	4,843.25	28.16	4,134.98	4,135.07	0.00	0.00	0.00



Phoenix Technology Services LP Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #46H
Company:	Apache Corporation	TVD Reference:	KB @ 3770.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3770.00usft (Capstar 119)
Site:	NFE Federal COM	North Reference:	Grid
Well:	#46H	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)
8,800.00	88.52	89.61	4,845.83	28.84	4,234.94	4,235.04	0.00	0.00	0.00
8,900.00	88.52	89.61	4,848.40	29.52	4,334.91	4,335.01	0.00	0.00	0.00
9,000.00	88.52	89.61	4,850.98	30.20	4,434.87	4,434.97	0.00	0.00	0.00
9,100.00	88.52	89.61	4,853.56	30.88	4,534.84	4,534.94	0.00	0.00	0.00
9,200.00	88.52	89.61	4,856.13	31.57	4,634.80	4,634.91	0.00	0.00	0.00
9,300.00	88.52	89.61	4,858.71	32.25	4,734.76	4,734.87	0.00	0.00	0.00
9,400.00	88.52	89.61	4,861.28	32.93	4,834.73	4,834.84	0.00	0.00	0.00
9,500.00	88.52	89.61	4,863.86	33.61	4,934.69	4,934.81	0.00	0.00	0.00
9,600.00	88.52	89.61	4,866.44	34.29	5,034.66	5,034.78	0.00	0.00	0.00
9,700.00	88.52	89.61	4,869.01	34.97	5,134.62	5,134.74	0.00	0.00	0.00
9,777.19	88.52	89.61	4,871.00	35.50	5,211.79	5,211.91	0.00	0.00	0.00
TD at 9777.19' MD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
MP v3 NFE Fed #46H - hit/miss target - plan hits target center - Point	0.00	0.00	4,810.00	19.35	2,840.49	678,742.24	631,231.10	32° 51' 54.77483 N	03° 54' 21.38298 W
BHL v3 NFE Fed #46I - plan hits target center - Point	0.00	0.00	4,871.00	35.50	5,211.79	678,758.39	633,602.39	32° 51' 54.83879 N	03° 53' 53.58070 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
270.00	270.00	Rustler		0.99	89.61	
440.00	440.00	T/Salt		0.99	89.61	
1,322.00	1,322.00	B/Salt		0.99	89.61	
1,485.00	1,485.00	Yates		0.99	89.61	
1,763.00	1,763.00	Seven Rivers		0.99	89.61	
2,357.00	2,357.00	Queen		0.99	89.61	
2,775.00	2,775.00	Grayburg		0.99	89.61	
3,098.00	3,098.00	San Andres		0.99	89.61	
4,548.36	4,536.16	Glorieta		0.99	89.61	
4,616.28	4,591.84	Yeso (Paddock)		0.99	89.61	

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Site:	NFE Federal COM	North Reference:	Grid
Well:	#46H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3 11-18-15		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,291.61	4,291.61	0.00	0.00	KOP, 12.00°/100' Build
5,033.36	4,769.00	3.20	469.20	LP, Hold 89.01° Inc
7,405.06	4,810.00	19.35	2,840.49	Begin 2.00°/100' Drop
7,429.34	4,810.52	19.51	2,864.77	Hold 88.52° Inc
9,777.19	4,871.00	35.50	5,211.79	TD at 9777.19' MD



EXPLORING WHAT'S POSSIBLE

Project: Eddy County, NM (NAD27 NME)
Site: NFE Federal COM
Well: #46H
Wellbore: OH
Design: Plan #3 11-18-15
Rig: Capstar 119



Azimuths to Grid North
True North: 0.23°
Magnetic North: 7.41°
Magnetic Field
Strength: 48541.1 nT
Dip Angle: 60.78°
Date: 11/18/2015
Model: NOAA

WELL DETAILS

Ground Level: 3750.00
Easting: 678398.80
Northing: 678722.50
Latitude: 32° 51' 54.8959" N
Longitude: 103° 54' 54.6844" W

SECTION DETAILS

Sec	MD	Inc	AS	TVD	-EAW	Deg	IFree	VFest	Target	Annotation
1	420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP: 12.00' 100' Build
2	5033.36	89.01	89.51	4789.00	3.30	49.20	12.00	89.51	49.20	LP Hold 89.01' Inc
3	7423.06	88.01	88.51	4789.00	19.35	284.49	0.00	0.00	284.56	MP Vd NFE Fed 46H
4	7423.34	88.53	89.51	4819.23	13.51	284.77	2.00	18.03	284.83	Hold 88.53' Inc
5	9777.18	88.53	89.51	4971.00	35.48	501.78	0.00	0.00	521.61	BL Vd NFE Fed 46H
6										TD at 9777.18 MD

DESIGN TARGET DETAILS

Name	TVD	-EAW	Ending	Latitude	Longitude	Shape	
MP Vd NFE Fed 46H	4810.00	19.35	284.49	678722.50	32° 51' 54.7483" N	21.36258" W	Point
BL Vd NFE Fed 46H	4810.00	35.48	521.79	678722.50	32° 51' 54.8979" N	103° 54' 53.9079" W	Point
-plan has target center							
-plan has target center							

LEGEND

- 40 OH Surveys VO
- 45OH OH, Plan #2 11-18-15 VO
- 45H OH, Plan #3 11-18-15 VO
- 47H OH, Plan #3 09-09-15 VO
- 48H OH, Plan #3 11-18-15 VO
- 48H OH, Plan #3 09-09-15 VO
- Plan #3 11-18-15

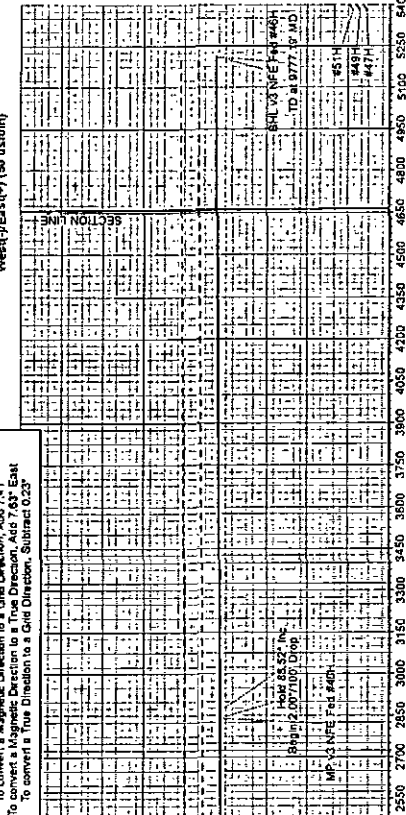
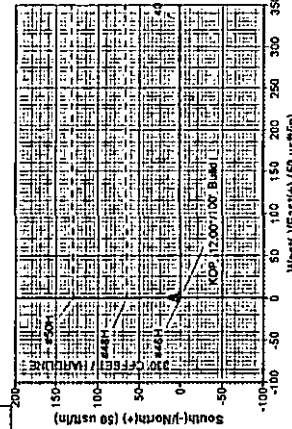
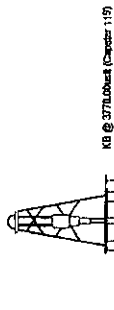
FORMATION TOP DETAILS

Topo	Depth	Formation	Thickness
270.00	270.00	Rucker	0.99
440.00	440.00	785d	0.99
1322.00	1322.00	805d	0.99
1553.00	1553.00	815d	0.99
1753.00	1753.00	825d	0.99
2357.00	2357.00	835d	0.99
2775.00	2775.00	845d	0.99
3098.00	3098.00	855d	0.99
4243.00	4243.00	865d	0.99
4913.00	4913.00	875d	0.99

Map Datum: US State Plane 1927 (Erect edition)
Datum: NAD 1927 (NADCOM CONUS)
Zone Name: New Mexico East 3001
Local Origin: Well #46H, Grid North
Latitude: 32° 51' 54.8959" N
Longitude: 103° 54' 54.6844" W
Grid East: 678398.80
Grid North: 678722.50
Scale Factor: 1.000

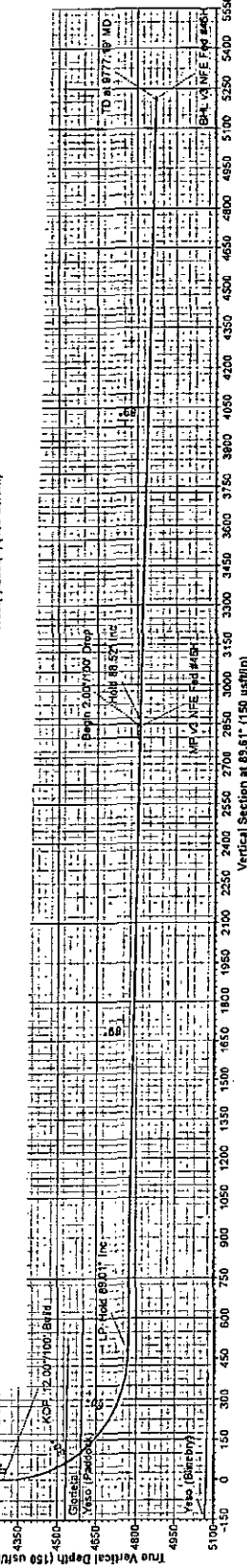
Geomagnetic Model: HDGM
Sample Date: 18-Nov-15
Magnetic Declination: 7.41° East
Dip Angle: 60.78°
Magnetic Field Strength: 48541

To convert a Magnetic Direction to a Grid Direction, Add 7.41°
To convert a Magnetic Direction to a True Direction, Add 7.93° East
To convert a True Direction to a Grid Direction, Subtract 0.23°



West(East) (150 usft/m)

True Vertical Depth (150 usft/m)



Vertical Section at 89.51° (150 usft/m)

Created By: Blanca L. Garcia Date: 9/23/2015

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

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-43443	Pool Code 96831	Pool Name Cedar Lake;Glorieta-Yeso
Property Code 308724	Property Name NFE FEDERAL COM	Well Number 46H
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3759'

Surface Location

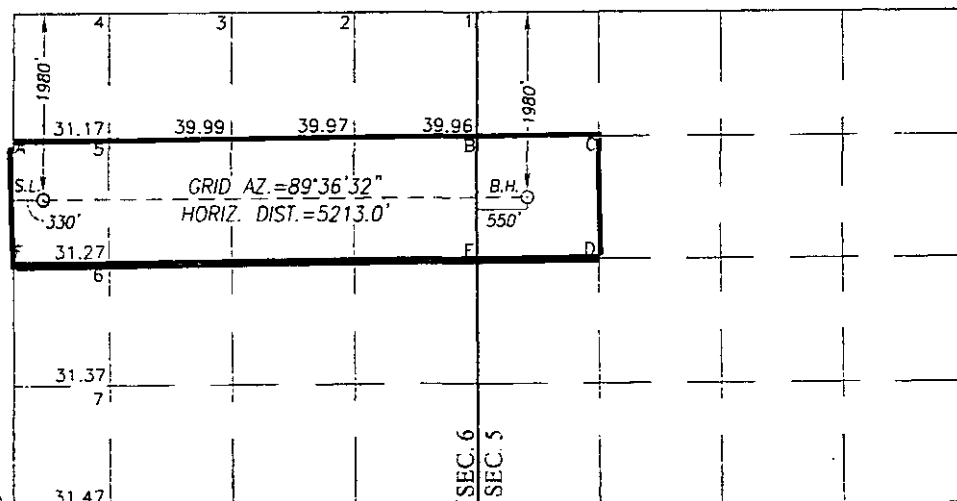
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
5	6	17-S	31-E		1980	NORTH	330	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	5	17-S	31-E		1980	NORTH	550	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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



SCALE: 1"=2000'

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y=678722.9 N
X=628390.6 E
LAT.=32.865193° N
LONG.=103.915191° W
LAT.=32° 51' 55" N
LONG.=103° 54' 56" W

CORNER COORDINATES TABLE

NAD 27 NME
A - Y=679380.9 N, X=628058.7 E
B - Y=679414.4 N, X=633048.7 E
C - Y=679423.9 N, X=634368.4 E
D - Y=678104.1 N, X=634375.9 E
E - Y=678094.7 N, X=633056.1 E
F - Y=678061.7 N, X=628062.7 E

GEODETIC COORDINATES
NAD 27 NME
BOTTOM HOLE LOCATION
Y=678758.5 N
X=633602.2 E
LAT.=32.865233° N
LONG.=103.898217° W
LAT.=32° 51' 55" N
LONG.=103° 53' 54" W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y=678787.0 N
X=669569.3 E
LAT.=32.865310° N
LONG.=103.915698° W
LAT.=32° 51' 55" N
LONG.=103° 54' 57" W

CORNER COORDINATES TABLE

NAD 83 NME
A - Y=679444.9 N, X=669237.4 E
B - Y=679478.5 N, X=674227.3 E
C - Y=679488.0 N, X=675547.0 E
D - Y=678168.2 N, X=675554.5 E
E - Y=678158.7 N, X=674234.7 E
F - Y=678125.6 N, X=669241.4 E

GEODETIC COORDINATES
NAD 83 NME
BOTTOM HOLE LOCATION
Y=678822.5 N
X=674780.9 E
LAT.=32.865350° N
LONG.=103.898725° W
LAT.=32° 51' 55" N
LONG.=103° 53' 55" W

OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

11/18/15

Sorina L Flores

Signature Date

Sorina L. Flores

Printed Name

sorina.flores@apachecorp.com

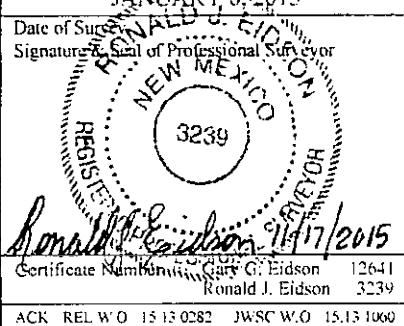
E-mail Address

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.

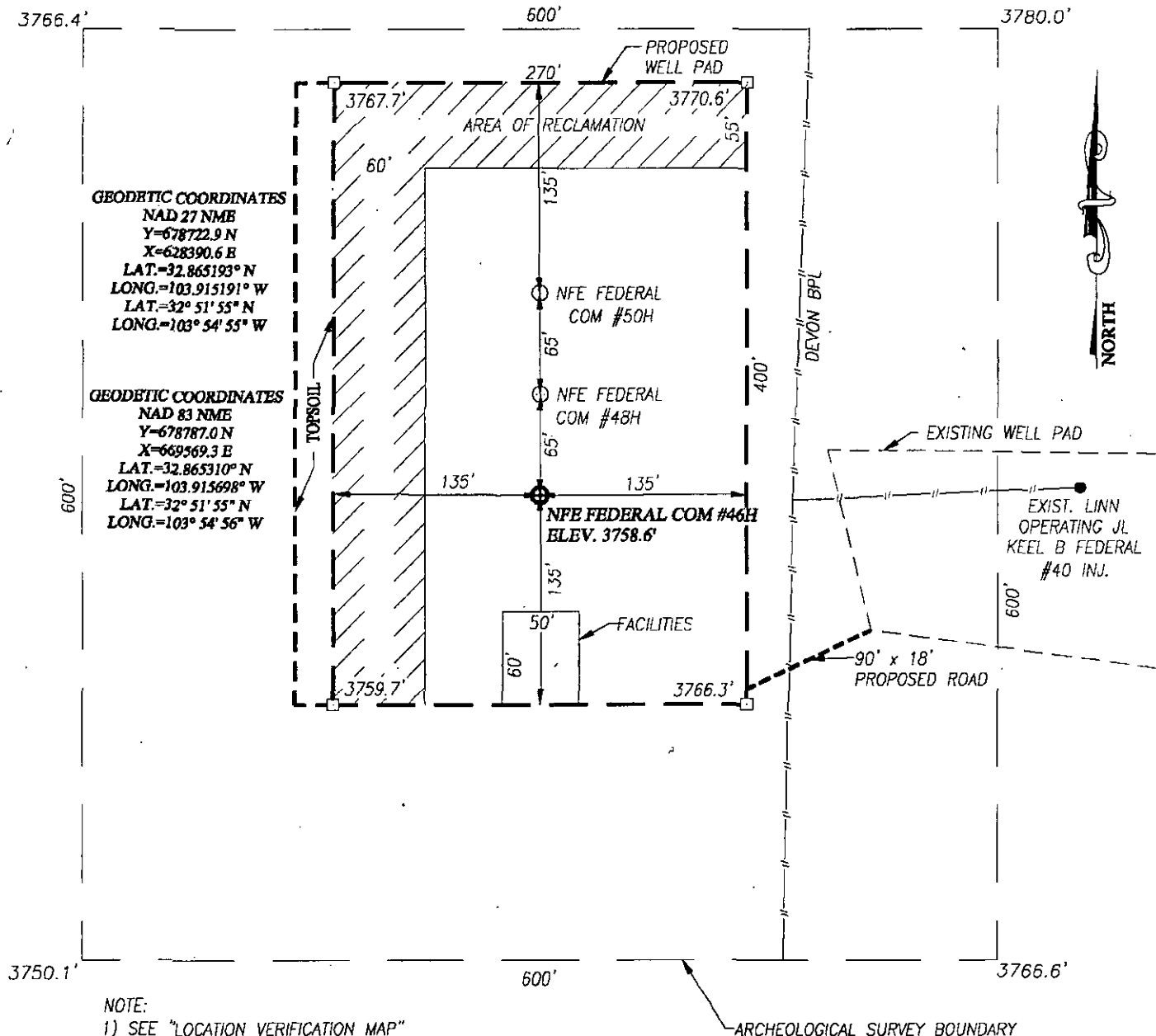
JANUARY 6, 2015

Date of Survey
Signature of Professional Surveyor

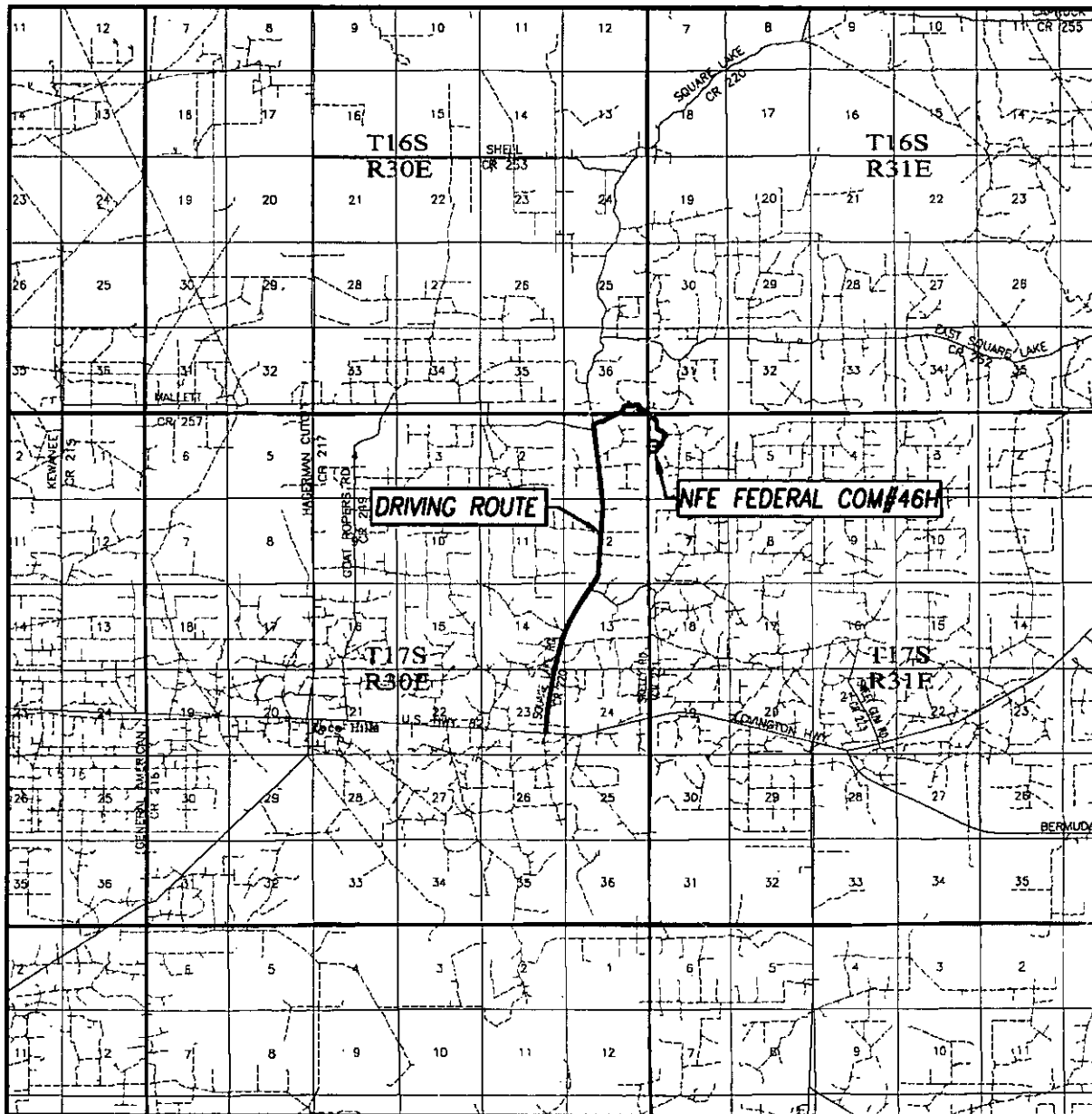


Certificate Number
Ronald J. Eidson 12641
Ronald J. Eidson 3239

ACK REL W/O 15 13 0282 JWSC W/O 15 13 1060



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.

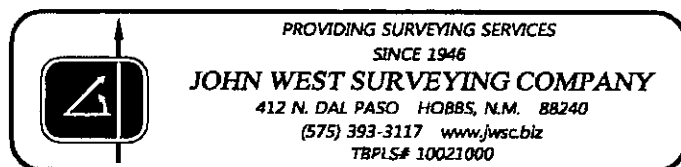
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1980' FNL & 330' FWL

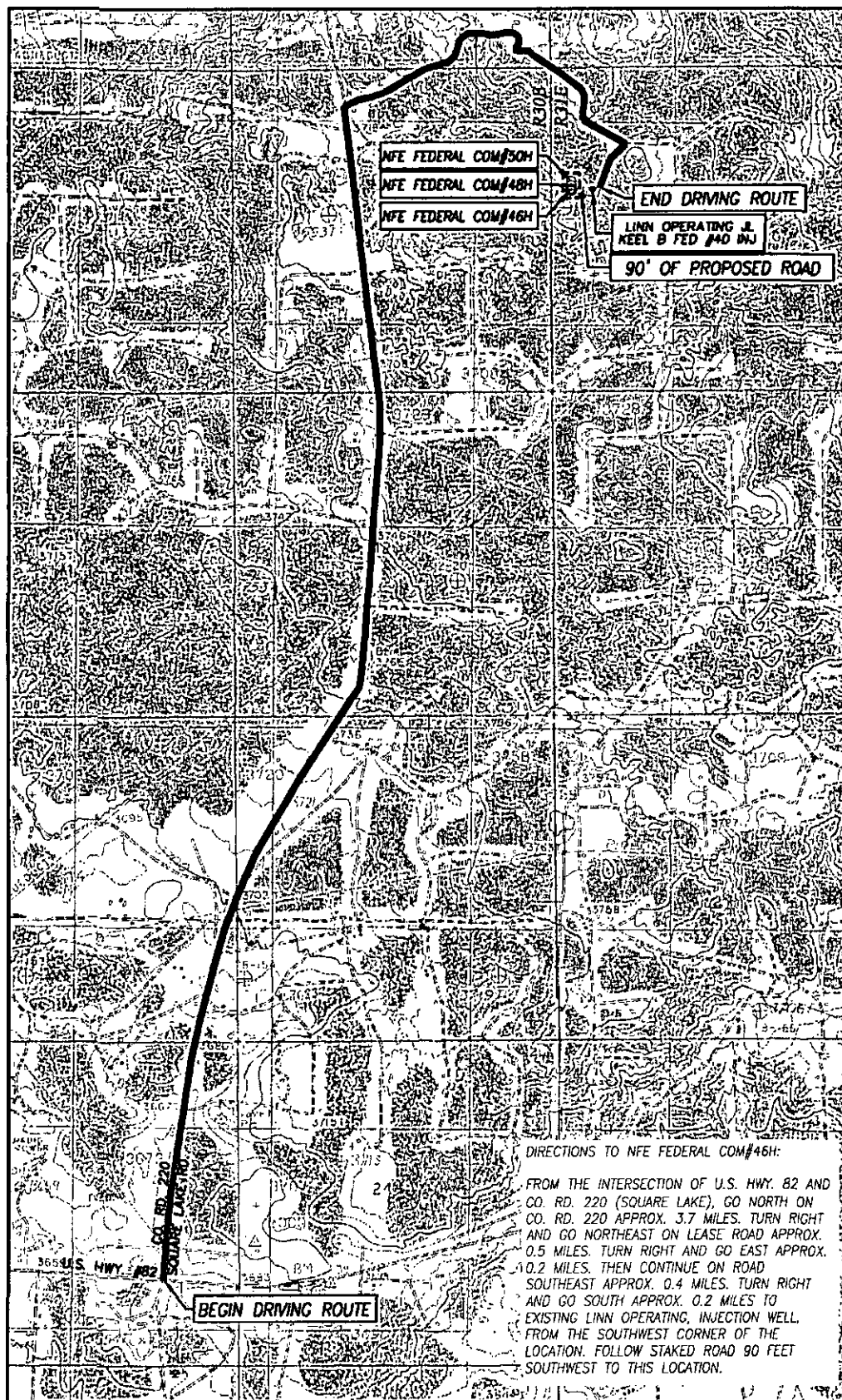
ELEVATION 3759'

OPERATOR APACHE CORPORATION

LEASE NFE FEDERAL COM



LOCATION VERIFICATION MAP



SEC. 6 TWP. 17-S RGE. 31-E
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 1980' FNL & 330' FWL
 ELEVATION 3759'
 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'



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

**NFE FEDERAL COM 46H
30-015-43443
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 31% (AKA -31%).**

KGR 11212015