

RECEIVED

JAN 27 2010

HOBBSS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

New Mexico Oil Conservation Division, District 1
1625 N. French Drive
Hobbs, NM 88240

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

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 reverse side

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	
2. Name of Operator Cimarex Energy Co. of Colorado	
3a. Address 600 N. Marienfeld St., Ste. 600; Midland, TX 79701	3b. Phone No. (include area code) 432-571-7800
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL 1980 FNL & 330 FEL 18-15S-31E BHL 1980 FNL & 375 FWL	

5. Lease Serial No. SHL LC-064900, BHL NM-0153471
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No. Pending
8. Well Name and No. Franklin 18 Federal Com No. 2
9. API Well No. 30-005-29073 30-005-29073
10. Field and Pool, or Exploratory Area Abo Wildcat
11. County or Parish, State Chaves 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 Location
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	and Access Road
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, included estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete 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 recompletion 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.)

In order to achieve a more favorable reservoir fracture orientation, Cimarex has changed the location of the Franklin 18 Federal Com No. 2 as shown below:

Permitted Location

18-15S-31E
SHL 1980 FNL & 330 FEL
BHL 1980 FNL & 375 FWL

DELETED
11/15-2010

New Proposed Location

18-15S-31E
SHL 430 FNL & 2200 FWL
BHL 330 FSL & 1980 FWL

The access road has also changed as shown on the attached plats.
Please also see attached revised C-102 and preliminary directional plan.

14 I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Zeno Farris

Signature

Zeno Farris

Title

Manager Operations Administration

Date

January 11, 2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any of fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

New APD required because new location is outside of previously analyzed area.

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Bravo Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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HOBBS

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-005-29073	Pool Code	Pool Name Abo Wildcat
Property Code 37526	Property Name FRANKLIN "18" FEDERAL COM	Well Number 2
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 4455'

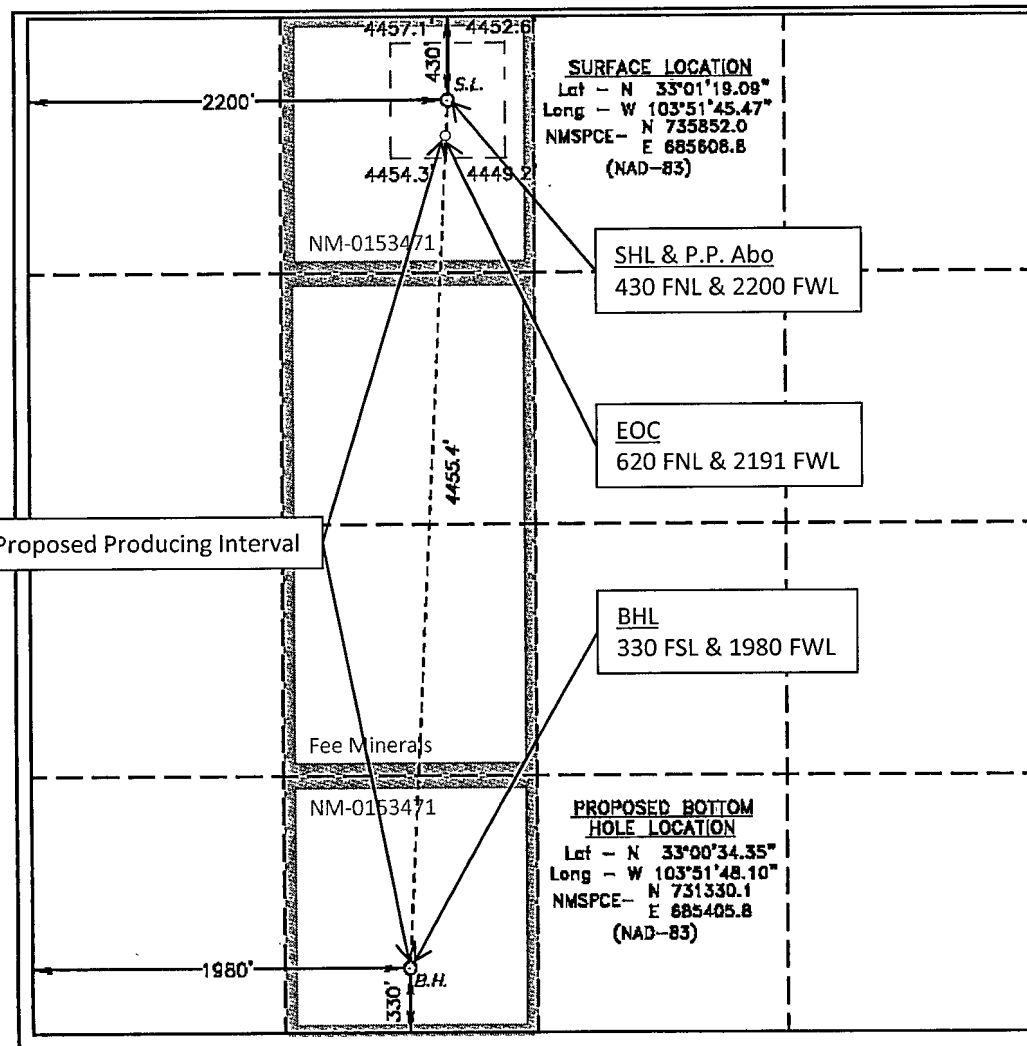
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	18	15 S	31 E		430	NORTH	2200	WEST	CHAVES

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
N	18	15 S	31 E		330	SOUTH	1980	WEST	CHAVES
Dedicated Acres 160	Joint or Infill	Consolidation Code P	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



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 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.

Zeno Farris 1/11/2010
Signature Date

Zeno Farris
Printed Name

SURVEYOR CERTIFICATION

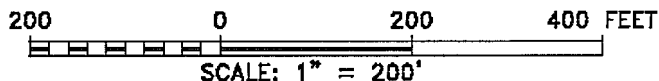
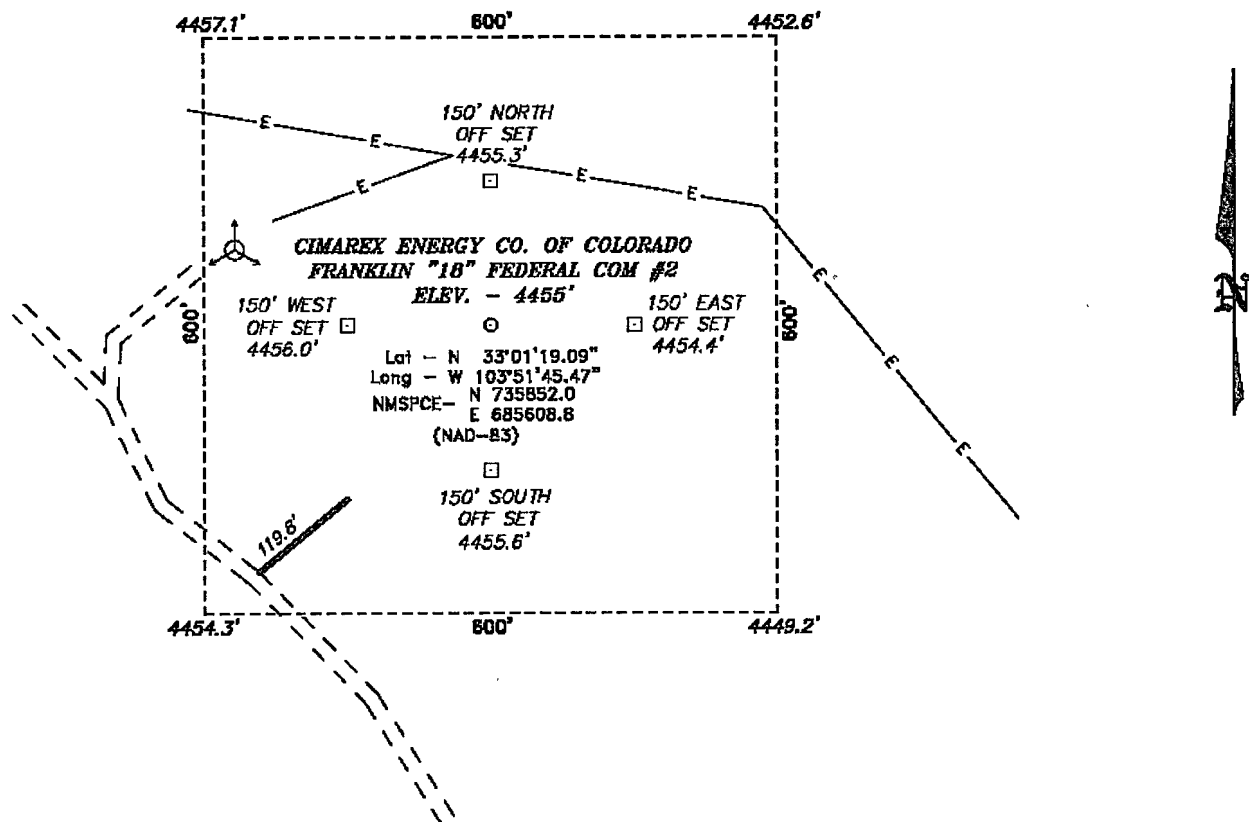
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 16, 2009
Date Surveyed
Signature & Seal of Professional Surveyor
W.S. JONES

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

SECTION 18, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M.,
CHAVES COUNTY, NEW MEXICO.



Directions to Location:

FROM MILE MARKER 30 OF HWY 249, GO WEST 0.25
MILES TO GATE AND TRAIL ROAD, FOLLOW TRAIL
ROAD NORTH FOR 0.5 MILES TO PROPOSED LEASE
ROAD.

BASIN SURVEYS P.O. BOX 1786—HOBBS, NEW MEXICO

W.O. Number: 21961 Drawn By: J. SMALL

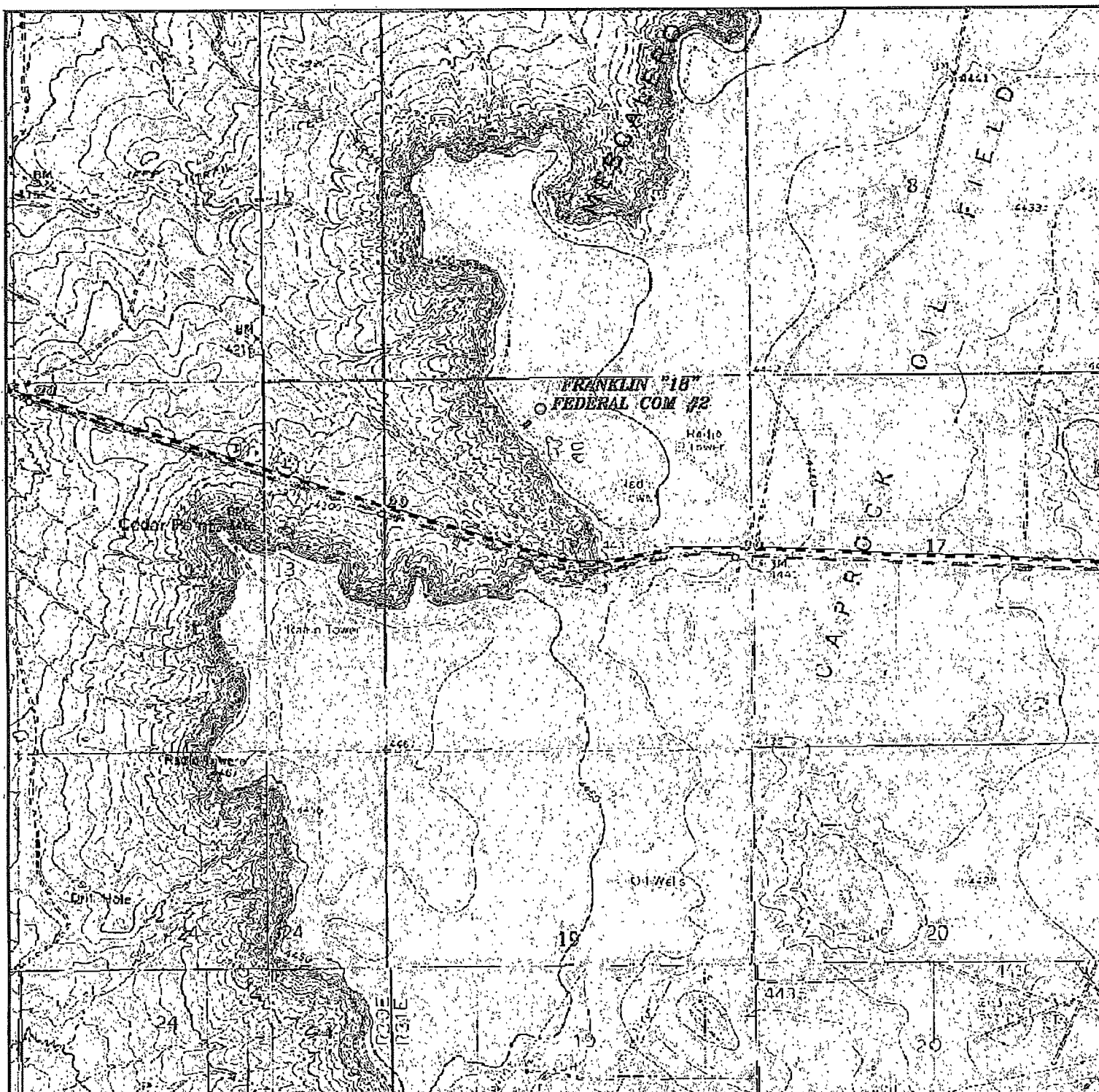
Date: 11-17-2009 Disk: JMS 21961

CIMAREX ENERGY CO. OF COLORADO

REF: FRANKLIN "18" FEDERAL COM #2 / WELL PAD TOPO

THE FRANKLIN "18" FEDERAL COM #2 LOCATED 430'
FROM THE NORTH LINE AND 2200' FROM THE WEST LINE OF
SECTION 18, TOWNSHIP 15 SOUTH, RANGE 31 EAST,
N.M.P.M., CHAVES COUNTY, NEW MEXICO.

Survey Date: 11-16-2009 Sheet 1 of 1 Sheets



FRANKLIN "18" FEDERAL COM #2
 Located 430' FNL and 2200' FWL
 Section 18, Township 15 South, Range 31 East,
 N.M.P.M., Chaves County, New Mexico.

basin
Surveys
 focused on excellence
 in the oilfield

P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basinsurveys.com

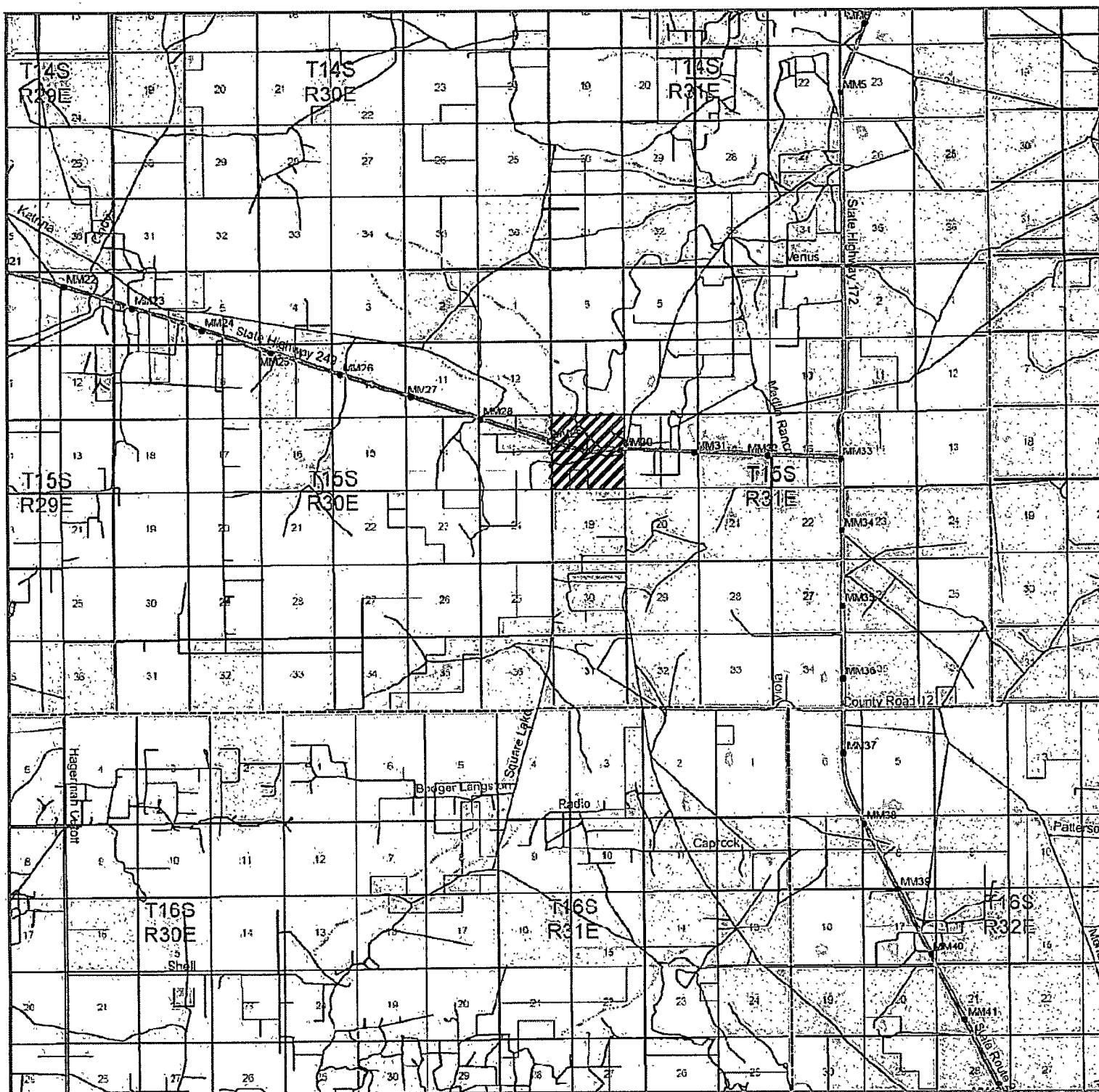
W.O. Number: JMS 21961

Survey Date: 11-16-2009

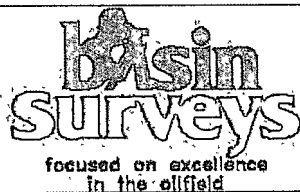
Scale: 1" = 2000'

Date: 11-17-2009

CIMAREX
ENERGY CO.
OF COLORADO



FRANKLIN "18" FEDERAL COM #2
 Located 430' FNL and 2200' FWL
 Section 18, Township 15 South, Range 31 East,
 N.M.P.M., Chaves County, New Mexico.



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 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basinsurveys.com

W.O. Number: JMS 21961

Survey Date: 11-16-2009

Scale: 1" = 2 Miles

Date: 11-17-2009

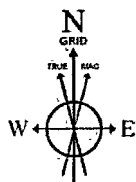
CIMAREX
 ENERGY CO.
 OF COLORADO



Cimarex Energy Co.

Location: Chaves County, NM
Field: (Franklin) Sec 18, T15S, R31E
Facility: Franklin 18 Fed Com No. 2H

Slot: No. 2H SHL
Well: No. 2H
Wellbore: No. 2H PWB



BGGM (1945 0 to 2011 0) Dip: 60.93° Field: 49261.7 nT
Magnetic North is 8.00 degrees East of True North (at 1/8/2010)
Grid North is 0.26 degrees East of True North
To correct azimuth from True to Grid subtract 0.26 degrees
To correct azimuth from Magnetic to Grid add 7.75 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.75 = 97.75

Scale 1 inch = 800 ft
Easting (ft)
-1200 -800 -400 0 400 800

No. 2H SHL
430' FNL
2200' FWL

KOP : 8510.00ft TVD, 0.00ft N, 0.00ft E

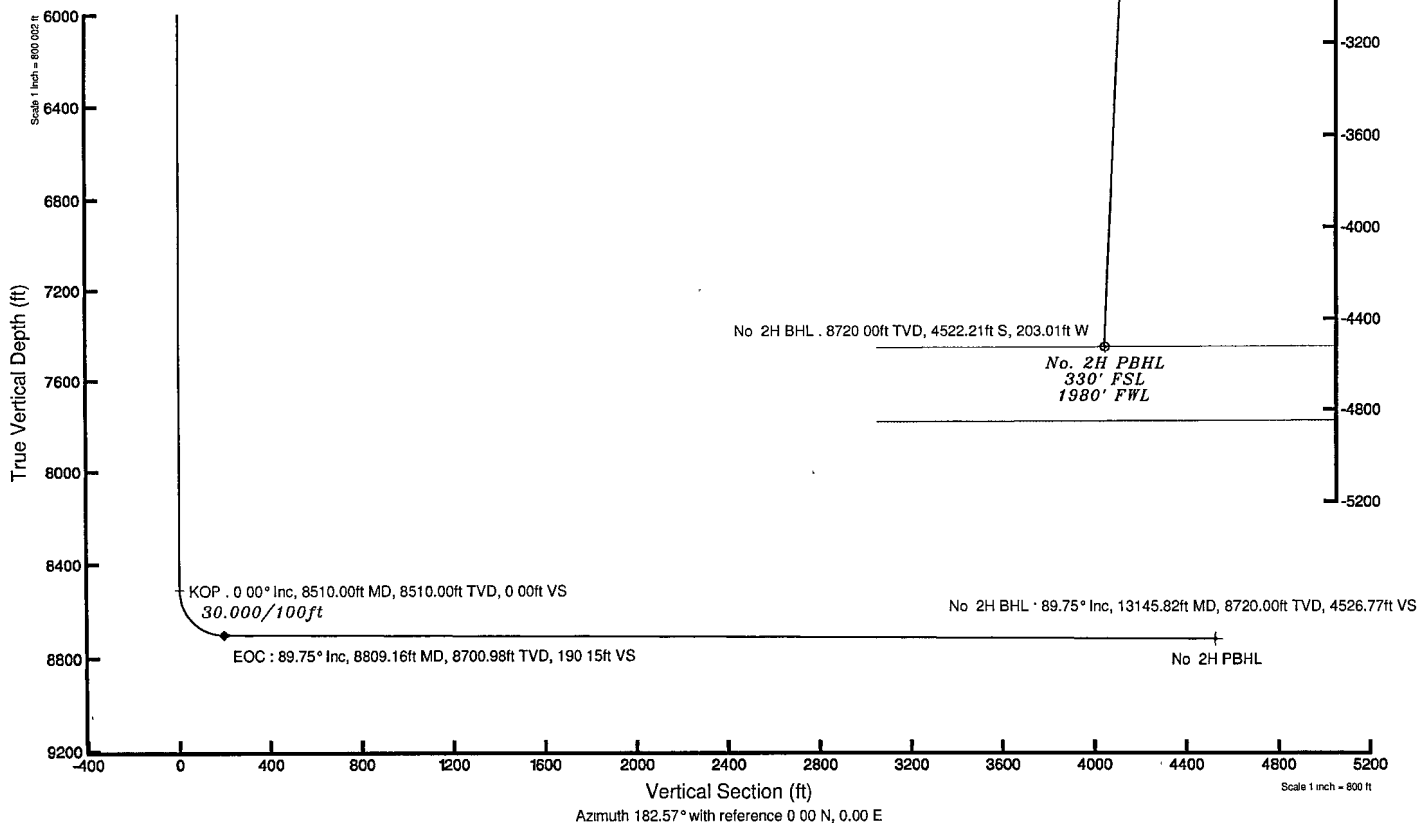
EOC : 8700.98ft TVD, 189.96ft S, 8.53ft W

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	182.570	0.00	0.00	0.00	0.00	0.00
KOP	8510.00	0.000	182.570	8510.00	0.00	0.00	0.00	0.00
EOC	8809.16	89.749	182.570	8700.98	-189.96	-8.53	30.00	190.15
No. 2H BHL	13145.82	89.749	182.570	8720.00	-4522.21	-203.01	0.00	4526.77

Plot reference wellpath is Prelim_2

True vertical depths are referenced to Rig on No. 2H SHL (RT)	Grid System: NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 2H SHL (RT)	North Reference: Grid north
Rig on No. 2H SHL (RT) to Mean Sea Level: 4473 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Franklin 18 Fed Com No. 2H): -4455 feet	Depths are in feet
Coordinates are in feet referenced to Surface Location	Created by: Victor Hernandez on 1/8/2010





Planned Wellpath Report

Prelim_2
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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Franklin) Sec 18, T15S, R31E	Wellbore	No. 2H PWB
Facility	Franklin 18 Fed Com No. 2H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999933	Report Generated	1/8/2010 at 5:01:52 PM
Convergence at slot	0.26° East	Database/Source file	WA_Midland/No. 2H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	685608.80	735852.00	33°01'19.085"N	103°51'45.470"W
Facility Reference Pt			685608.80	735852.00	33°01'19.085"N	103°51'45.470"W
Field Reference Pt			688326.60	735962.00	33°01'20.052"N	103°51'13.544"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 2H SHL (RT) to GL	18.00ft
Horizontal Reference Pt	Surface Location	Rig on No. 2H SHL (RT) to Mean Sea Level	4473.00ft
Vertical Reference Pt	Rig on No. 2H SHL (RT)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 2H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	182.57°



Planned Wellpath Report

Prelim 2
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REFERENCE WELLPATH IDENTIFICATION			
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Area	Chaves County, NM	Well	No. 2H
Field	(Franklin) Sec 18, T15S, R31E	Wellbore	No. 2H PWB
Facility	Franklin 18 Fed Com No. 2H		

WELLPATH DATA (50 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]	Comments
0.00	0.000	182.570	0.00	0.00	0.00	0.00	685608.80	735852.00	0.00	Tie On
8510.00	0.000	182.570	8510.00	0.00	0.00	0.00	685608.80	735852.00	0.00	KOP
8610.00†	30.000	182.570	8605.49	25.59	-25.56	-1.15	685607.65	735826.44	30.00	
8710.00†	60.000	182.570	8675.40	95.49	-95.40	-4.28	685604.52	735756.61	30.00	
8809.16	89.749	182.570	8700.98	190.15	-189.96	-8.53	685600.27	735662.06	30.00	EOC
8810.00†	89.749	182.570	8700.99	190.99	-190.79	-8.57	685600.24	735661.22	0.00	
8910.00†	89.749	182.570	8701.43	290.98	-290.69	-13.05	685595.75	735561.33	0.00	
9010.00†	89.749	182.570	8701.86	390.98	-390.59	-17.53	685591.27	735461.44	0.00	
9110.00†	89.749	182.570	8702.30	490.98	-490.49	-22.02	685586.78	735361.54	0.00	
9210.00†	89.749	182.570	8702.74	590.98	-590.39	-26.50	685582.30	735261.65	0.00	
9310.00†	89.749	182.570	8703.18	690.98	-690.29	-30.99	685577.81	735161.76	0.00	
9410.00†	89.749	182.570	8703.62	790.98	-790.18	-35.47	685573.33	735061.87	0.00	
9510.00†	89.749	182.570	8704.06	890.98	-890.08	-39.96	685568.84	734961.98	0.00	
9610.00†	89.749	182.570	8704.50	990.98	-989.98	-44.44	685564.36	734862.09	0.00	
9710.00†	89.749	182.570	8704.93	1090.98	-1089.88	-48.93	685559.88	734762.20	0.00	
9810.00†	89.749	182.570	8705.37	1190.98	-1189.78	-53.41	685555.39	734662.30	0.00	
9910.00†	89.749	182.570	8705.81	1290.98	-1289.68	-57.90	685550.91	734562.41	0.00	
10010.00†	89.749	182.570	8706.25	1390.97	-1389.57	-62.38	685546.42	734462.52	0.00	
10110.00†	89.749	182.570	8706.69	1490.97	-1489.47	-66.87	685541.94	734362.63	0.00	
10210.00†	89.749	182.570	8707.13	1590.97	-1589.37	-71.35	685537.45	734262.74	0.00	
10310.00†	89.749	182.570	8707.57	1690.97	-1689.27	-75.84	685532.97	734162.85	0.00	
10410.00†	89.749	182.570	8708.00	1790.97	-1789.17	-80.32	685528.49	734062.96	0.00	
10510.00†	89.749	182.570	8708.44	1890.97	-1889.07	-84.81	685524.00	733963.06	0.00	
10610.00†	89.749	182.570	8708.88	1990.97	-1988.97	-89.29	685519.52	733863.17	0.00	
10710.00†	89.749	182.570	8709.32	2090.97	-2088.86	-93.77	685515.03	733763.28	0.00	
10810.00†	89.749	182.570	8709.76	2190.97	-2188.76	-98.26	685510.55	733663.39	0.00	
10910.00†	89.749	182.570	8710.20	2290.97	-2288.66	-102.74	685506.06	733563.50	0.00	
11010.00†	89.749	182.570	8710.63	2390.96	-2388.56	-107.23	685501.58	733463.61	0.00	
11110.00†	89.749	182.570	8711.07	2490.96	-2488.46	-111.71	685497.09	733363.71	0.00	
11210.00†	89.749	182.570	8711.51	2590.96	-2588.36	-116.20	685492.61	733263.82	0.00	



Planned Wellpath Report

Prelim 2
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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Franklin) Sec 18, T15S, R31E	Wellbore	No. 2H PWB
Facility	Franklin 18 Fed Com No. 2H		

WELLPATH DATA (50 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]	Comments
11310.00†	89.749	182.570	8711.95	2690.96	-2688.25	-120.68	685488.13	733163.93	0.00	
11410.00†	89.749	182.570	8712.39	2790.96	-2788.15	-125.17	685483.64	733064.04	0.00	
11510.00†	89.749	182.570	8712.83	2890.96	-2888.05	-129.65	685479.16	732964.15	0.00	
11610.00†	89.749	182.570	8713.27	2990.96	-2987.95	-134.14	685474.67	732864.26	0.00	
11710.00†	89.749	182.570	8713.70	3090.96	-3087.85	-138.62	685470.19	732764.37	0.00	
11810.00†	89.749	182.570	8714.14	3190.96	-3187.75	-143.11	685465.70	732664.47	0.00	
11910.00†	89.749	182.570	8714.58	3290.96	-3287.64	-147.59	685461.22	732564.58	0.00	
12010.00†	89.749	182.570	8715.02	3390.96	-3387.54	-152.08	685456.73	732464.69	0.00	
12110.00†	89.749	182.570	8715.46	3490.95	-3487.44	-156.56	685452.25	732364.80	0.00	
12210.00†	89.749	182.570	8715.90	3590.95	-3587.34	-161.05	685447.77	732264.91	0.00	
12310.00†	89.749	182.570	8716.33	3690.95	-3687.24	-165.53	685443.28	732165.02	0.00	
12410.00†	89.749	182.570	8716.77	3790.95	-3787.14	-170.01	685438.80	732065.12	0.00	
12510.00†	89.749	182.570	8717.21	3890.95	-3887.04	-174.50	685434.31	731965.23	0.00	
12610.00†	89.749	182.570	8717.65	3990.95	-3986.93	-178.98	685429.83	731865.34	0.00	
12710.00†	89.749	182.570	8718.09	4090.95	-4086.83	-183.47	685425.34	731765.45	0.00	
12810.00†	89.749	182.570	8718.53	4190.95	-4186.73	-187.95	685420.86	731665.56	0.00	
12910.00†	89.749	182.570	8718.97	4290.95	-4286.63	-192.44	685416.38	731565.67	0.00	
13010.00†	89.749	182.570	8719.40	4390.95	-4386.53	-196.92	685411.89	731465.78	0.00	
13110.00†	89.749	182.570	8719.84	4490.94	-4486.43	-201.41	685407.41	731365.88	0.00	
13145.82	89.749	182.570	8720.00†	4526.77	-4522.21	-203.01	685405.80	731330.10	0.00	No. 2H BHL



Planned Wellpath Report

Prelim_2

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Franklin) Sec 18, T15S, R31E	Wellbore	No. 2H PWB
Facility	Franklin 18 Fed Com No. 2H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 2H PBHL	13145.82	8720.00	-4522.21	-203.01	685405.80	731330.10	33°00'34.352"N	103°51'48.092"W	point

SURVEY PROGRAM Ref Wellbore: No. 2H PWB Ref Wellpath: Prelim_2

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	13145.82	NaviTrak (Standard)		No. 2H PWB