

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM116166	
2. Name of Operator MCELVAIN OIL & GAS PROP INC		6. If Indian, Allottee or Tribe Name	
3a. Address 1050 17TH STREET SUITE 1800 DENVER, CO 80265-1801		7. If Unit or CA/Agreement, Name and/or No.	
3b. Phone No. (include area code) Ph: 303-893-0933 Ext: 331 Fx: 303-893-0914		8. Well Name and No. EK 29 BS2 FEDERAL COM 3H	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T18S R34E SESW 305FSL 2155FWL		9. API Well No. 30-025-42699-00-X1	
		10. Field and Pool, or Exploratory E K	
		11. County or Parish, and State LEA 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	
	☐ 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 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.)

EK 29 BS2 FEDERAL COM #3H ? API#: 30-025-42699

HOBBS OCD

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McElvain Energy, Inc. received approval from the NMOC for a Non-Standard Location (NSL) pertaining to the EK 29 BS2 Federal Com #3H, API#: 30-025-42699. The NSL request was to revise the setback requirements from 510 feet from a directly offsetting tract to a 330 ft setback from a directly offsetting tract. This change allows McElvain Energy, Inc. to contact an additional 360 ft of 2nd Bone Spring reservoir (an additional 180 ft to the North & South section lines), thus, improving drainage efficiency similar to offsetting operators in the area. McElvain Energy, Inc. has attached the revised C-102, directional plan and approved NSL document from the NMOC for the EK 29 BS2 Federal Com #3H.

Original Drilling COA still stand dated 9/2/2015

14. I hereby certify that the foregoing is true and correct.		Electronic Submission #316768 verified by the BLM Well Information System For MCELVAIN OIL & GAS PROP INC, sent to the Hobbs Committed to AFMSS for processing by LINDA JIMENEZ on 10/02/2015 (16LJ0053SE)	
Name (Printed/Typed)	TONY G COOPER	Title	SR EHS SPECIALIST
Signature	(Electronic Submission)	Date	09/16/2015
THIS SPACE FOR FEDERAL OR STATE OFFICE USE			
Approved By <u>EDWARD FERNANDEZ</u>		Title <u>PETROLEUM ENGINEER</u>	
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 Hobbs	
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.			

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

NOV 23 2015

Additional data for EC transaction #316768 that would not fit on the form

32. Additional remarks, continued

The new TMD of the well will be 14,785 ft (increased from 14,267 ft). This additional 518 ft will result in an increase in the production casing cement tail slurry of ~100 sacks. Therefore, the revised 5 ?? production casing single-stage cement design is as follows (volumes include 25% excess):

20 bbls Gel Spacer

Lead Slurry ? 590 sx VERSACEM ? System: Density: 11.5 ppg, Yield: 2.672 cuft/sx

Tail Slurry ? 1,205 sx VERSACEM ? System: Density: 14.5 ppg, Yield: 1.225 cuft/sx

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



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September 2, 2015

MCELVAIN ENERGY, INC.
Attn: Ms. Jordan Kessler

ADMINISTRATIVE NON-STANDARD LOCATION

Administrative Order NSL-7338
Administrative Application Reference No. pJAG1520130351

McElvain Energy, Inc.
OGRID 22044
EK 29 BS2 Federal Com. Well No. 3H
API No. 30-025-42699

Proposed Location:

	<u>Footages</u>	<u>Unit</u>	<u>Sec.</u>	<u>Twsp</u>	<u>Range</u>	<u>County</u>
Surface	305' FSL & 2155' FWL	N	29	18S	34E	Lea
Penetration Point	330' FSL & 2153' FWL	N	29	18S	34E	Lea
Final perforation (Terminus)	330' FNL & 1973' FWL	C	29	18S	34E	Lea

Proposed Project Area:

<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
E/2 W/2 of Section 29	160	E-K; Bone Spring	21650

Reference is made to your application received on August 12, 2015.

You have requested to drill this horizontal well at an unorthodox oil well location described above in the referenced pool or formation. This location is governed, by the Special Rules for the E-K; Bone Spring Pool, which provides for 80-acre units, with wells located within 150 feet of the center of a governmental quarter-quarter section. Rule 19.15.16.14.B(2) NMAC concerning directional wells in designated project areas is also applicable, making setback requirements apply to the distance from the outer boundary of the designated project area. This location is unorthodox because portions of the proposed completed interval are less than 510 feet to a directly offsetting tract and less than 783 feet diagonally to a diagonally offsetting tract.

Your application has been duly filed under the provisions of Division Rules 19.15.15.13 NMAC and 19.15.4.12.A(2) NMAC.

It is our understanding that you are seeking this location because it will allow for efficient well spacing and reservoir drainage. Further, the W/2 of Section 29 and E/2 E/2 of Section 30 are being developed by the applicant in the Bone Spring formation with North-South horizontal wells.

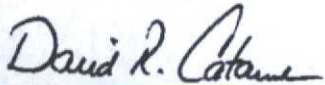
It is also understood that you have given due notice of this application to all operators or owners who are "affected persons," as defined in Rule 19.15.4.12 A (2) NMAC, in all adjoining units towards which the proposed location encroaches.

Pursuant to the authority conferred by Division Rule 9.15.15.13 (B) NMAC, the above-described unorthodox location is hereby approved.

This approval is subject to your being in compliance with all other applicable Division rules, including, but not limited to Division Rule 19.15.5.9 NMAC.

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on September 2, 2015.



DAVID R. CATANACH
Director

DRC/mam

cc: New Mexico Oil Conservation Division – Hobbs
Bureau of Land Management - Carlsbad

NOV 16 2015

Form C-102

Revised August 1, 2011

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-8161 Fax: (505) 393-0720

DISTRICT II

811 S. First St., Artesia, NM 88210
Phone (505) 748-1263 Fax: (505) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3480 Fax: (505) 476-3482State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number		Pool Code	Pool Name
Property Code	Property Name EK 29 BS2 FEDERAL COM		Well Number 3H
OGRID No.	Operator Name McELVAIN ENERGY, INC		Elevation 3943

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	29	18 S	34 E		305	SOUTH	2155	WEST	LEA

Bottom Hole Location If Different From Surface

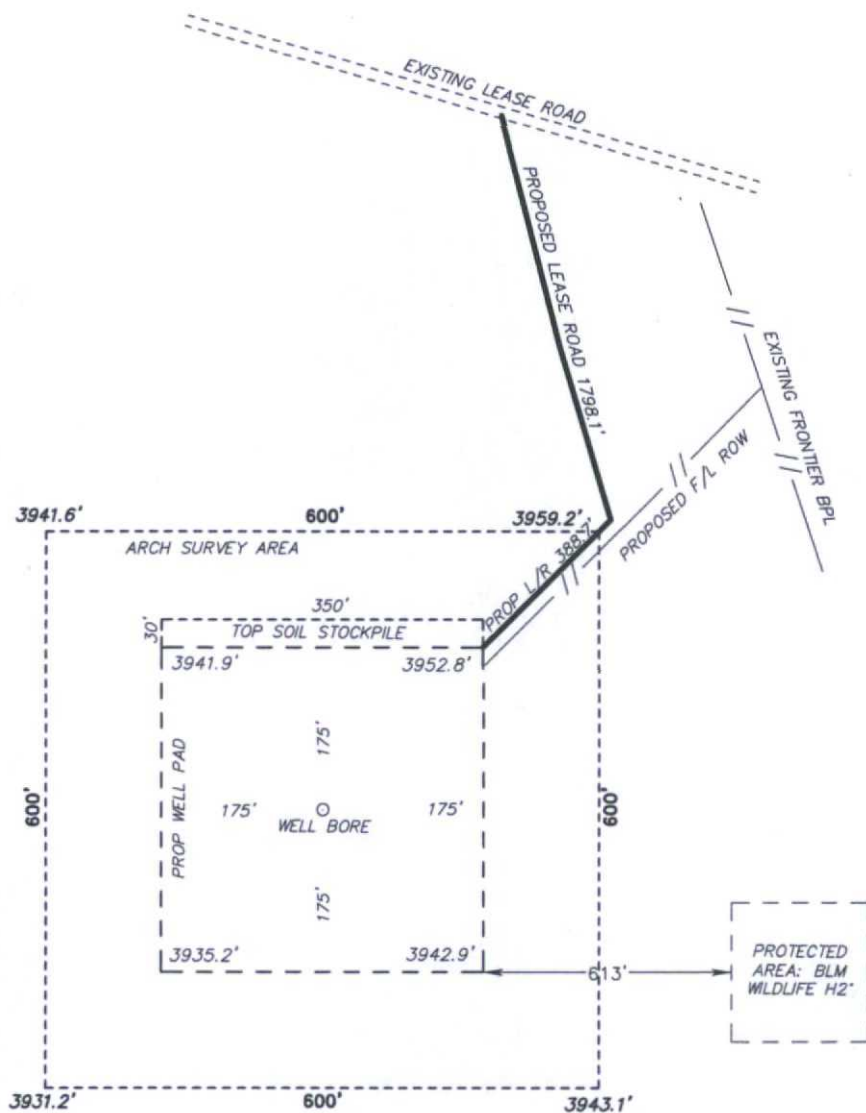
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	29	18 S	34 E		330	NORTH	1973	WEST	LEA

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

	N: 628640.1 E: 769593.2 (NAD83) 1973' 305' B.H. N: 628660.4 E: 772232.9 (NAD83) BOTTOM HOLE LOCATION Lat - N 32°43'30.25" Long - W 103°35'04.85" NMSPCE- N 628325.1 E 771568.9 (NAD-83)	N: 628675.6 E: 774878.4 (NAD83)	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 or has a right to drill this well at this 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. Signature _____ Date _____ Printed Name _____ Email Address _____	
	N: 623359.6 E: 769645.7 (NAD83) 2155' 305' S.L. N: 623394.4 E: 774926.2 (NAD83) SURFACE LOCATION Lat - N 32°42'44.27" Long - W 103°35'02.56" NMSPCE- N 623679.6 E 771797.2 (NAD-83)	3941.6' 3959.2' 3931.2' 3943.1'	7977 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. DATE SURVEYED: DECEMBER 10, 2014 Signature & Seal of Professional Surveyor Certificate No. 7977 Basin Surveyors	0' 500' 1000' 1500' 2000' SCALE: 1" = 1000' WO Num.: 31338

SECTION 29, TOWNSHIP 18 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

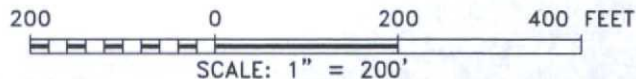


McELVAIN ENERGY, INC
EK 29 BS2 FEDERAL COM 3H
 ELEV. - 3943'
 Lat - N 32°42'44.27"
 Long - W 103°35'02.56"
 NMSPC- N 623679.6
 E 771797.2
 (NAD-83)

Directions to Location:

FROM JUNCTION OF US 529 AND GEMINI ROAD GO
 NORTHWEST ON US 529 1.6 MILES, TURN
 SOUTHWEST ON LEASE ROAD 1.7 MILES, SOUTHEAST
 ON LEASE ROAD 0.7 MILES, LEFT ON LEASE ROAD
 0.8 MILES, TURN SOUTH ON LEASE ROAD 0.4 MILES
 AND PROPOSED LEASE ROAD WILL BE ON RIGHT.

HOBBS, NM IS ±26 MILES TO THE EAST OF LOCATION.



McELVAIN ENERGY, INC

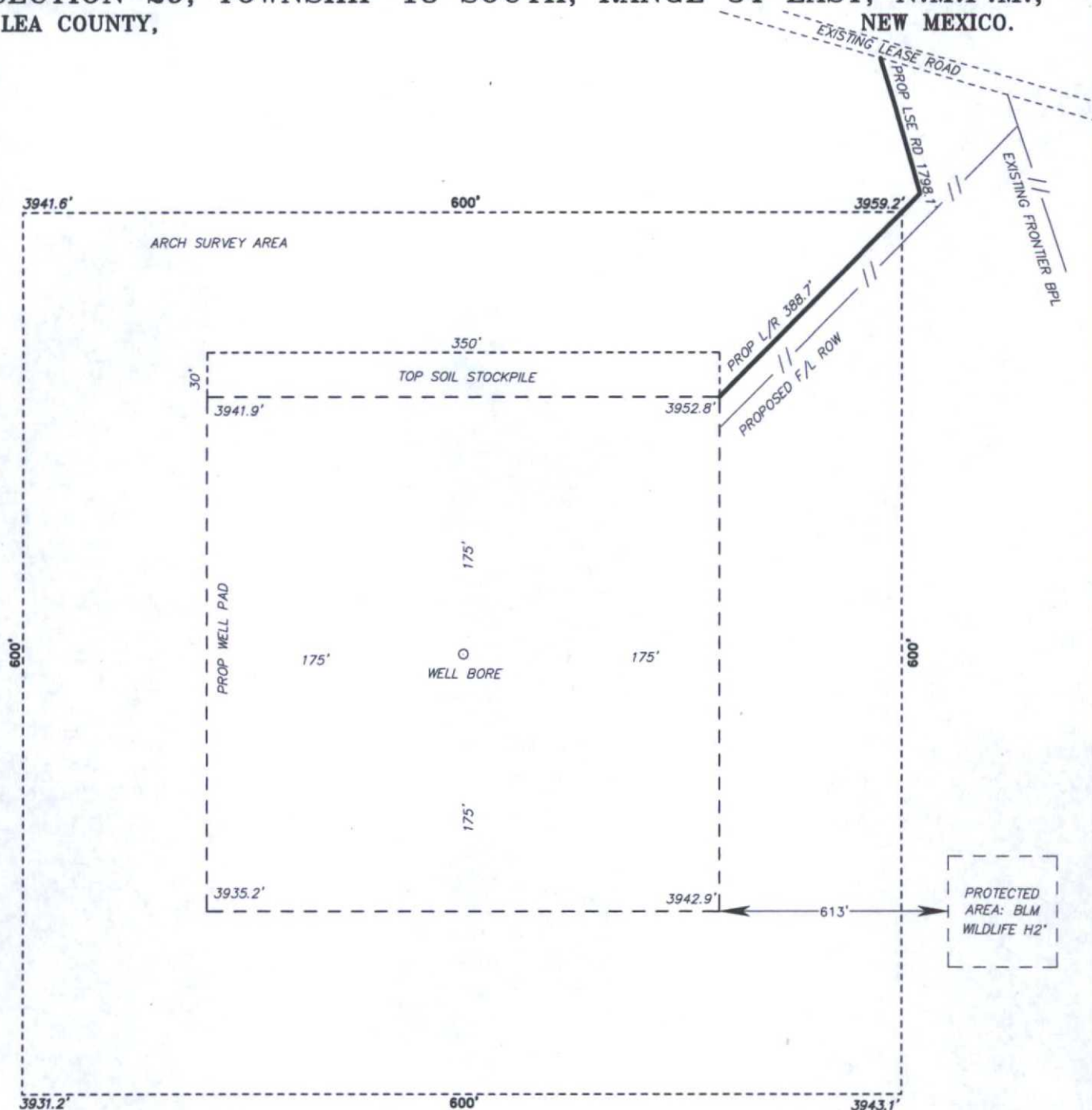
REF: EK 29 BS2 FEDERAL COM 3H / WELL PAD TOPO

THE EK 29 BS2 FEDERAL COM 3H LOCATED 305' FROM
 THE SOUTH LINE AND 2155' FROM THE WEST LINE OF
 SECTION 29, TOWNSHIP 18 SOUTH, RANGE 34 EAST.
 N.M.P.M., LEA COUNTY, NEW MEXICO.

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

SECTION 29, TOWNSHIP 18 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



100 0 100 200 FEET
SCALE: 1" = 100'

McELVAIN ENERGY, INC

REF: EK 29 BS2 FEDERAL COM 3H / WELL PAD TOPO

THE EK 29 BS2 FEDERAL COM 3H LOCATED 305' FROM
THE SOUTH LINE AND 2155' FROM THE WEST LINE OF
SECTION 29, TOWNSHIP 18 SOUTH, RANGE 34 EAST.

N.M.P.M., LEA COUNTY, NEW MEXICO.

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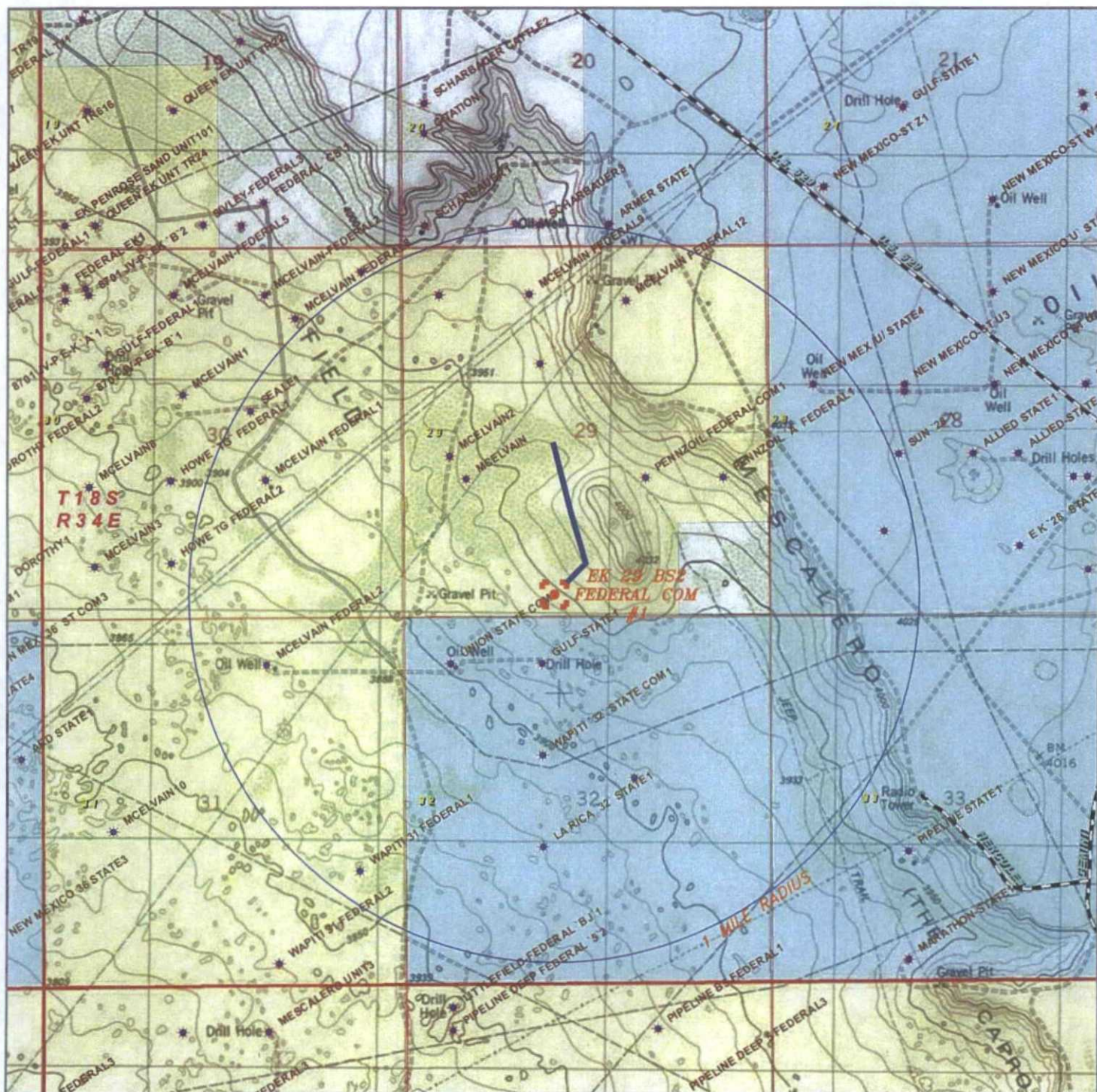
W.O. Number: 31338

Drawn By: K. NORRIS

Date: 12-18-2014

Survey Date: 12-12-2014

Sheet 1 of 1 Sheets



EK 29 BS2 FEDERAL COM 3H

Located 305' FSL and 2155' FWL

Section 29, Township 18 South, Range 34 East,
N.M.P.M., Lea County, New Mexico.

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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

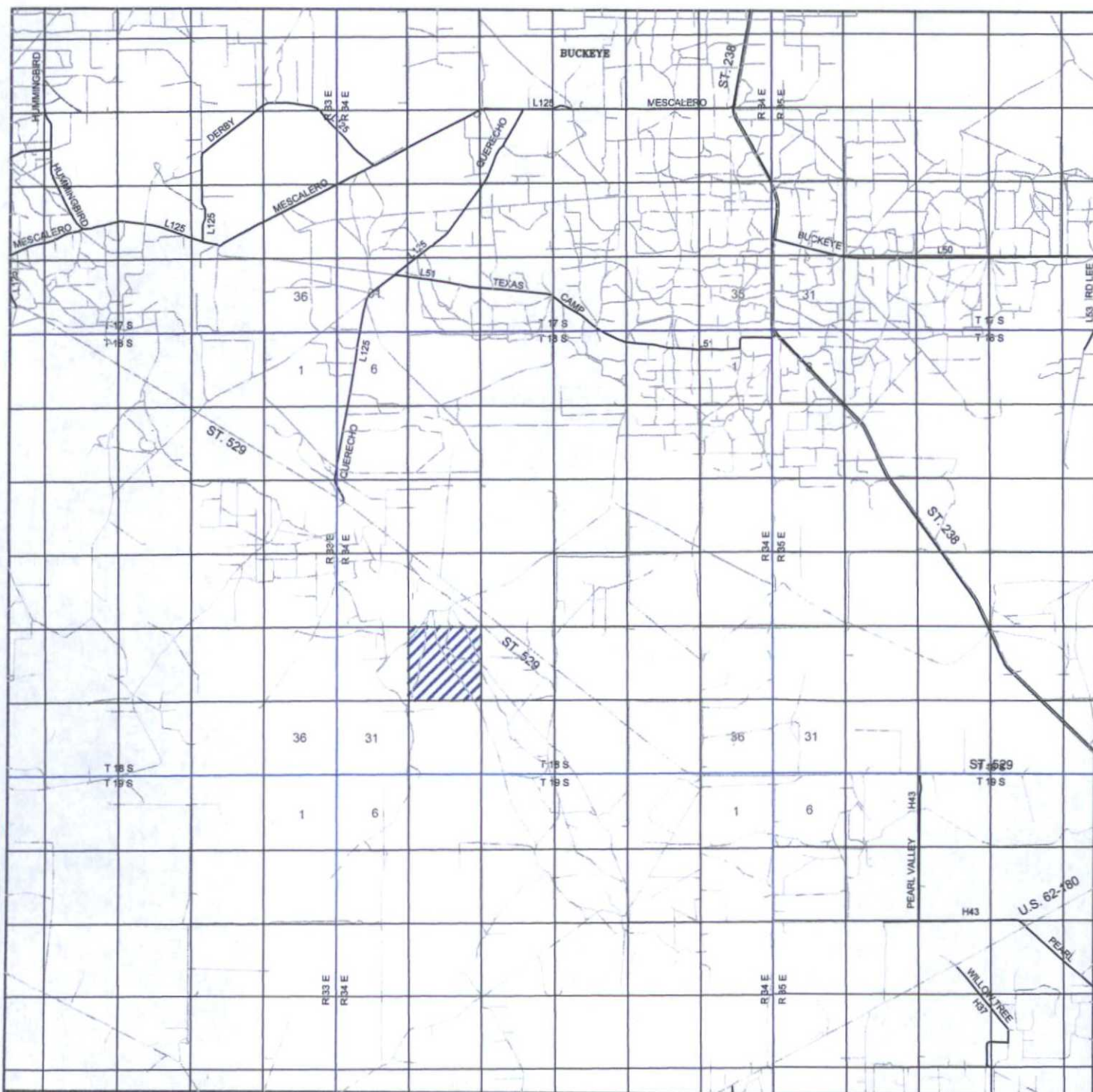
W.O. Number: KAN 31338

Survey Date: 12-12-2014

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



**McELVAIN
ENERGY, INC**



EK 29 BS2 FEDERAL COM 3H

Located 305' FSL and 2155' FWL

**Section 29, Township 18 South, Range 34 East,
N.M.P.M., Lea County, New Mexico.**



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Hobbs, New Mexico 88241
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basinsurveys.com

0 1 MI 2 MI 3 MI 4 MI
SCALE: 1" = 2 MILES

W.O. Number: KAN 31338

Survey Date: 12-12-2014

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



**McELVAIN
ENERGY, INC**



EK 29 BS2 FEDERAL COM 3H

Located 305' FSL and 2155' FWL

Section 29, Township 18 South, Range 34 East,
N.M.P.M., Lea County, New Mexico.

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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: KAN 31338

Survey Date: 12-12-2014

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



McELVAIN
ENERGY, INC



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McElvain Energy, Inc.

Sec. 29 T18S R34E

EK Federal Com 29

EK Federal Com 29 #3H

Wellbore #1

Plan: Plan #2 21apr15 kjs

Standard Planning Report - Geographic

23 April, 2015



New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well EK Federal Com 29 #3H
Company:	McElvain Energy, Inc.	TVD Reference:	WELL @ 3963.0ft (Original Well Elev)
Project:	Sec. 29 T18S R34E	MD Reference:	WELL @ 3963.0ft (Original Well Elev)
Site:	EK Federal Com 29	North Reference:	True
Well:	EK Federal Com 29 #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 21apr15 kjs		

Project	Sec. 29 T18S R34E		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	EK Federal Com 29		
Site Position:		Northing:	623,679.60 ft
From:	Map	Easting:	771,797.20 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	32° 42' 44.271 N
		Longitude:	103° 35' 2.561 W
		Grid Convergence:	0.40 °

Well	EK Federal Com 29 #3H		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	32° 42' 44.271 N
		Longitude:	103° 35' 2.561 W
		Ground Level:	3,943.0 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	12/31/2014	7.19
			Dip Angle
			(°)
			60.55
			Field Strength
			(nT)
			48,549

Design	Plan #2 21apr15 kjs		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			357.59

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,925.3	6.38	177.59	6,924.5	-23.6	1.0	1.50	1.50	0.00	177.59	
9,494.3	6.38	177.59	9,477.5	-308.9	13.0	0.00	0.00	0.00	0.00	
10,311.4	91.67	357.59	10,007.9	179.1	-7.5	12.00	10.44	-22.03	-180.00	
14,605.1	91.67	357.59	9,883.0	4,467.2	-187.8	0.00	0.00	0.00	0.00	TD / PBHL EK 29 Fec
14,785.1	91.67	357.59	9,877.8	4,647.0	-195.4	0.00	0.00	0.00	0.00	



New Tech

Planning Report - Geographic

Database: EDM 2003.16 Single User Db
 Company: McElvain Energy, Inc.
 Project: Sec. 29 T18S R34E
 Site: EK Federal Com 29
 Well: EK Federal Com 29 #3H
 Wellbore: Wellbore #1
 Design: Plan #2 21apr15 kjs

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well EK Federal Com 29 #3H
 WELL @ 3963.0ft (Original Well Elev)
 WELL @ 3963.0ft (Original Well Elev)
 True
 Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
200.0	0.00	0.00	200.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
400.0	0.00	0.00	400.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
600.0	0.00	0.00	600.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
800.0	0.00	0.00	800.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
1,763.0	0.00	0.00	1,763.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
Rustier									
1,800.0	0.00	0.00	1,800.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
1,823.0	0.00	0.00	1,823.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
Salt									
2,000.0	0.00	0.00	2,000.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
3,200.0	0.00	0.00	3,200.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
3,338.0	0.00	0.00	3,338.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
Yates									
3,400.0	0.00	0.00	3,400.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
Intermediate Csg									
3,600.0	0.00	0.00	3,600.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
3,763.0	0.00	0.00	3,763.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
Seven Rivers									
3,800.0	0.00	0.00	3,800.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
4,400.0	0.00	0.00	4,400.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
4,538.0	0.00	0.00	4,538.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
Queen									
4,600.0	0.00	0.00	4,600.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
4,800.0	0.00	0.00	4,800.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
4,813.0	0.00	0.00	4,813.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
Penrose									
5,000.0	0.00	0.00	5,000.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
5,200.0	0.00	0.00	5,200.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
5,338.0	0.00	0.00	5,338.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
San Andres									
5,400.0	0.00	0.00	5,400.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
5,563.0	0.00	0.00	5,563.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
Delaware									
5,600.0	0.00	0.00	5,600.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
5,603.0	0.00	0.00	5,603.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
1st Delaware Sand									
5,763.0	0.00	0.00	5,763.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
2nd Delaware Sand									
5,800.0	0.00	0.00	5,800.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
6,000.0	0.00	0.00	6,000.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
6,200.0	0.00	0.00	6,200.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W



New Tech

Planning Report - Geographic

Database: EDM 2003.16 Single User Db
 Company: McElvain Energy, Inc.
 Project: Sec. 29 T18S R34E
 Site: EK Federal Com 29
 Well: EK Federal Com 29 #3H
 Wellbore: Wellbore #1
 Design: Plan #2 21apr15 kjs

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well EK Federal Com 29 #3H
 WELL @ 3963.0ft (Original Well Elev)
 WELL @ 3963.0ft (Original Well Elev)
 True
 Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
6,400.0	0.00	0.00	6,400.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
6,500.0	0.00	0.00	6,500.0	0.0	0.0	623,679.60	771,797.20	32° 42' 44.271 N	103° 35' 2.561 W
Start Build 1.50									
6,600.0	1.50	177.59	6,600.0	-1.3	0.1	623,678.29	771,797.26	32° 42' 44.258 N	103° 35' 2.560 W
6,800.0	4.50	177.59	6,799.7	-11.8	0.5	623,667.84	771,797.78	32° 42' 44.154 N	103° 35' 2.555 W
6,925.3	6.38	177.59	6,924.5	-23.6	1.0	623,655.97	771,798.36	32° 42' 44.037 N	103° 35' 2.549 W
Hold 6.38° Inc, 177.59° Az									
7,000.0	6.38	177.59	6,998.7	-31.9	1.3	623,647.69	771,798.77	32° 42' 43.955 N	103° 35' 2.545 W
7,200.0	6.38	177.59	7,197.4	-54.1	2.3	623,625.49	771,799.86	32° 42' 43.735 N	103° 35' 2.534 W
7,400.0	6.38	177.59	7,396.2	-76.3	3.2	623,603.29	771,800.95	32° 42' 43.515 N	103° 35' 2.524 W
7,600.0	6.38	177.59	7,594.9	-98.5	4.1	623,581.09	771,802.04	32° 42' 43.296 N	103° 35' 2.513 W
7,797.8	6.38	177.59	7,791.5	-120.5	5.1	623,559.14	771,803.12	32° 42' 43.078 N	103° 35' 2.502 W
Bone Spring									
7,800.0	6.38	177.59	7,793.7	-120.7	5.1	623,558.89	771,803.14	32° 42' 43.076 N	103° 35' 2.502 W
8,000.0	6.38	177.59	7,992.5	-142.9	6.0	623,536.70	771,804.23	32° 42' 42.856 N	103° 35' 2.491 W
8,200.0	6.38	177.59	8,191.2	-165.2	7.0	623,514.50	771,805.32	32° 42' 42.636 N	103° 35' 2.480 W
8,400.0	6.38	177.59	8,390.0	-187.4	7.9	623,492.30	771,806.41	32° 42' 42.417 N	103° 35' 2.469 W
8,600.0	6.38	177.59	8,588.7	-209.6	8.8	623,470.10	771,807.50	32° 42' 42.197 N	103° 35' 2.458 W
8,800.0	6.38	177.59	8,787.5	-231.8	9.8	623,447.91	771,808.59	32° 42' 41.977 N	103° 35' 2.447 W
9,000.0	6.38	177.59	8,986.3	-254.0	10.7	623,425.71	771,809.68	32° 42' 41.758 N	103° 35' 2.436 W
9,034.5	6.38	177.59	9,020.5	-257.8	10.9	623,421.88	771,809.87	32° 42' 41.720 N	103° 35' 2.434 W
1st Bone Spring Sand									
9,200.0	6.38	177.59	9,185.0	-276.2	11.6	623,403.51	771,810.78	32° 42' 41.538 N	103° 35' 2.425 W
9,400.0	6.38	177.59	9,383.8	-298.4	12.6	623,381.31	771,811.87	32° 42' 41.318 N	103° 35' 2.414 W
9,494.3	6.38	177.59	9,477.5	-308.9	13.0	623,370.84	771,812.38	32° 42' 41.215 N	103° 35' 2.409 W
KOP 12°/100									
9,589.0	4.98	357.59	9,572.0	-310.0	13.0	623,369.69	771,812.44	32° 42' 41.203 N	103° 35' 2.408 W
2nd Bone Spring Sand									
9,600.0	6.30	357.59	9,583.0	-308.9	13.0	623,370.77	771,812.39	32° 42' 41.214 N	103° 35' 2.409 W
9,800.0	30.30	357.59	9,771.5	-246.6	10.4	623,433.04	771,809.33	32° 42' 41.830 N	103° 35' 2.440 W
10,000.0	54.30	357.59	9,918.3	-113.1	4.8	623,566.50	771,802.77	32° 42' 43.151 N	103° 35' 2.505 W
10,156.0	73.02	357.59	9,987.2	25.9	-1.1	623,705.49	771,795.94	32° 42' 44.527 N	103° 35' 2.574 W
POP - TOP TARGET WINDOW									
10,200.0	78.30	357.59	9,998.1	68.5	-2.9	623,748.07	771,793.85	32° 42' 44.948 N	103° 35' 2.595 W
10,302.1	90.55	357.59	10,008.0	169.8	-7.1	623,849.39	771,788.87	32° 42' 45.951 N	103° 35' 2.645 W
TARGET CENTER LINE									
10,311.4	91.67	357.59	10,007.9	179.1	-7.5	623,858.65	771,788.42	32° 42' 46.043 N	103° 35' 2.649 W
Landing Pt 91.67° Inc, 357.59° Az									
10,400.0	91.67	357.59	10,005.3	267.6	-11.2	623,947.12	771,784.07	32° 42' 46.918 N	103° 35' 2.693 W
10,600.0	91.67	357.59	9,999.5	467.3	-19.6	624,146.79	771,774.26	32° 42' 48.895 N	103° 35' 2.791 W
10,800.0	91.67	357.59	9,993.7	667.1	-28.0	624,346.47	771,764.45	32° 42' 50.871 N	103° 35' 2.889 W
11,000.0	91.67	357.59	9,987.8	866.8	-36.4	624,546.14	771,754.64	32° 42' 52.848 N	103° 35' 2.988 W
11,200.0	91.67	357.59	9,982.0	1,066.6	-44.8	624,745.82	771,744.83	32° 42' 54.824 N	103° 35' 3.086 W
11,400.0	91.67	357.59	9,978.2	1,266.3	-53.2	624,945.49	771,735.02	32° 42' 56.800 N	103° 35' 3.184 W
11,600.0	91.67	357.59	9,970.4	1,466.0	-61.6	625,145.16	771,725.21	32° 42' 58.777 N	103° 35' 3.283 W
11,800.0	91.67	357.59	9,964.6	1,665.8	-70.0	625,344.84	771,715.40	32° 43' 0.753 N	103° 35' 3.381 W
12,000.0	91.67	357.59	9,958.8	1,865.5	-78.4	625,544.51	771,705.59	32° 43' 2.729 N	103° 35' 3.479 W
12,200.0	91.67	357.59	9,952.9	2,065.3	-86.8	625,744.19	771,695.78	32° 43' 4.706 N	103° 35' 3.577 W
12,400.0	91.67	357.59	9,947.1	2,265.0	-95.2	625,943.86	771,685.97	32° 43' 6.682 N	103° 35' 3.676 W
12,600.0	91.67	357.59	9,941.3	2,464.7	-103.6	626,143.54	771,676.16	32° 43' 8.658 N	103° 35' 3.774 W
12,800.0	91.67	357.59	9,935.5	2,664.5	-112.0	626,343.21	771,666.35	32° 43' 10.635 N	103° 35' 3.872 W
13,000.0	91.67	357.59	9,929.7	2,864.2	-120.4	626,542.89	771,656.53	32° 43' 12.611 N	103° 35' 3.971 W
13,200.0	91.67	357.59	9,923.9	3,063.9	-128.8	626,742.56	771,646.72	32° 43' 14.587 N	103° 35' 4.069 W



New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well EK Federal Com 29 #3H
Company:	McElvain Energy, Inc.	TVD Reference:	WELL @ 3963.0ft (Original Well Elev)
Project:	Sec. 29 T18S R34E	MD Reference:	WELL @ 3963.0ft (Original Well Elev)
Site:	EK Federal Com 29	North Reference:	True
Well:	EK Federal Com 29 #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 21apr15 kjs		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
13,400.0	91.67	357.59	9,918.0	3,263.7	-137.2	626,942.24	771,636.91	32° 43' 16.564 N	103° 35' 4.167 W
13,600.0	91.67	357.59	9,912.2	3,463.4	-145.6	627,141.91	771,627.10	32° 43' 18.540 N	103° 35' 4.266 W
13,800.0	91.67	357.59	9,906.4	3,663.2	-154.0	627,341.58	771,617.29	32° 43' 20.516 N	103° 35' 4.364 W
14,000.0	91.67	357.59	9,900.6	3,862.9	-162.4	627,541.26	771,607.48	32° 43' 22.493 N	103° 35' 4.462 W
14,200.0	91.67	357.59	9,894.8	4,062.6	-170.8	627,740.93	771,597.67	32° 43' 24.469 N	103° 35' 4.561 W
14,400.0	91.67	357.59	9,889.0	4,262.4	-179.2	627,940.61	771,587.86	32° 43' 26.446 N	103° 35' 4.659 W
14,600.0	91.67	357.59	9,883.1	4,462.1	-187.6	628,140.28	771,578.05	32° 43' 28.422 N	103° 35' 4.757 W
14,605.1	91.67	357.59	9,883.0	4,467.2	-187.8	628,145.40	771,577.80	32° 43' 28.473 N	103° 35' 4.760 W
TD / PBHL EK 29 Fed Com #3H									
14,785.1	91.67	357.59	9,877.8	4,647.0	-195.4	628,325.08	771,568.97	32° 43' 30.251 N	103° 35' 4.848 W
TD at 14785.1									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
TD / PBHL EK 29 Fed C	0.00	0.00	9,883.0	4,467.2	-187.8	628,145.40	771,577.80	32° 43' 28.473 N	103° 35' 4.760 W
- plan hits target									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
3,400.0	3,400.0	Intermediate Csg	0	0

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,797.8	7,788.0	Bone Spring		-1.67	357.59
4,813.0	4,813.0	Penrose		-1.67	357.59
5,563.0	5,563.0	Delaware		-1.67	357.59
1,763.0	1,763.0	Rustler		-1.67	357.59
9,034.5	9,013.0	1st Bone Spring Sand		-1.67	357.59
	10,038.0	BASE TARGET WINDOW		-1.67	357.59
9,589.0	9,563.0	2nd Bone Spring Sand		-1.67	357.59
5,338.0	5,338.0	San Andres		-1.67	357.59
5,763.0	5,763.0	2nd Delaware Sand		-1.67	357.59
3,763.0	3,763.0	Seven Rivers		-1.67	357.59
4,538.0	4,538.0	Queen		-1.67	357.59
10,156.0	9,988.0	TOP TARGET WINDOW		-1.67	357.59
5,603.0	5,603.0	1st Delaware Sand		-1.67	357.59
1,823.0	1,823.0	Salt		-1.67	357.59
10,302.1	10,013.0	TARGET CENTER LINE		-1.67	357.59
3,338.0	3,338.0	Yates		-1.67	357.59



New Tech
Planning Report - Geographic

Database: EDM 2003.16 Single User Db
Company: McElvain Energy, Inc.
Project: Sec. 29 T18S R34E
Site: EK Federal Com 29
Well: EK Federal Com 29 #3H
Wellbore: Wellbore #1
Design: Plan #2 21apr15 kjs

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well EK Federal Com 29 #3H
WELL @ 3963.0ft (Original Well Elev)
WELL @ 3963.0ft (Original Well Elev)
True
Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,500.0	6,500.0	0.0	0.0	Start Build 1.50
6,925.3	6,924.5	-23.6	1.0	Hold 6.38° Inc, 177.59° Az
9,494.3	9,477.5	-308.9	13.0	KOP 12°/100
10,156.0	9,987.3	25.9	-1.1	POP
10,311.4	10,007.9	179.1	-7.5	Landing Pt 91.67° Inc, 357.59° Az
14,785.1	9,877.8	4,467.2	-187.8	TD at 14785.1