

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office  
OCD Artesia

FORM APPROVED  
NO. 1004-0137  
January 31, 2018

**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.*

Serial No.  
NM 102911

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. KYLE 34 FEDERAL 3H
2. Name of Operator BC OPERATING INC		9. API Well No. 30-015-43405-00-X1
3a. Address MIDLAND, TX 79710	3b. Phone No. (include area code) Ph: 701-260-7272	10. Field and Pool or Exploratory Area WILLOW LAKE-BONE SPRING, SE TO PURPLE SAGE WFM
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 34 T24S R28E SESW 150FSL 1650FWL 32.166800 N Lat, 104.077993 W Lon		11. County or Parish, State EDDY COUNTY, NM 98220

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original APD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Marathon Oil Permian, LLC respectfully requests to amend the well from a Bone Spring to a Wolfcamp.  
Due to pad expansion, this well will also have a SHL change. See attachments:

- See COA for engineering - 7.

Further well change  
on another Sunday.

NM OIL CONSERVATION  
ARTESIA DISTRICT

NOV 02 2017

RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #381287 verified by the BLM Well Information System For BC OPERATING INC, sent to the Carlsbad Committed to AFMSS for processing by DEBORAH MCKINNEY on 07/20/2017 (17DLM2137SE)	
Name (Printed/Typed) MELISSA B SZUDERA	Title REGULATORY COMPLIANCE REP
Signature (Electronic Submission)	Date 07/13/2017

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>Tengku (7) Kriny</u>	Title <u>Engineer</u>	Date <u>10/26/12</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 <u>Carlsbad FO</u>	

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.

(Instructions on page 2)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

RWP  
11-2-17

Marathon Oil Permian, LLC  
Kyle 34 Federal com #3H  
**Changes to Original Drill Plan**

## 2. Casing Program

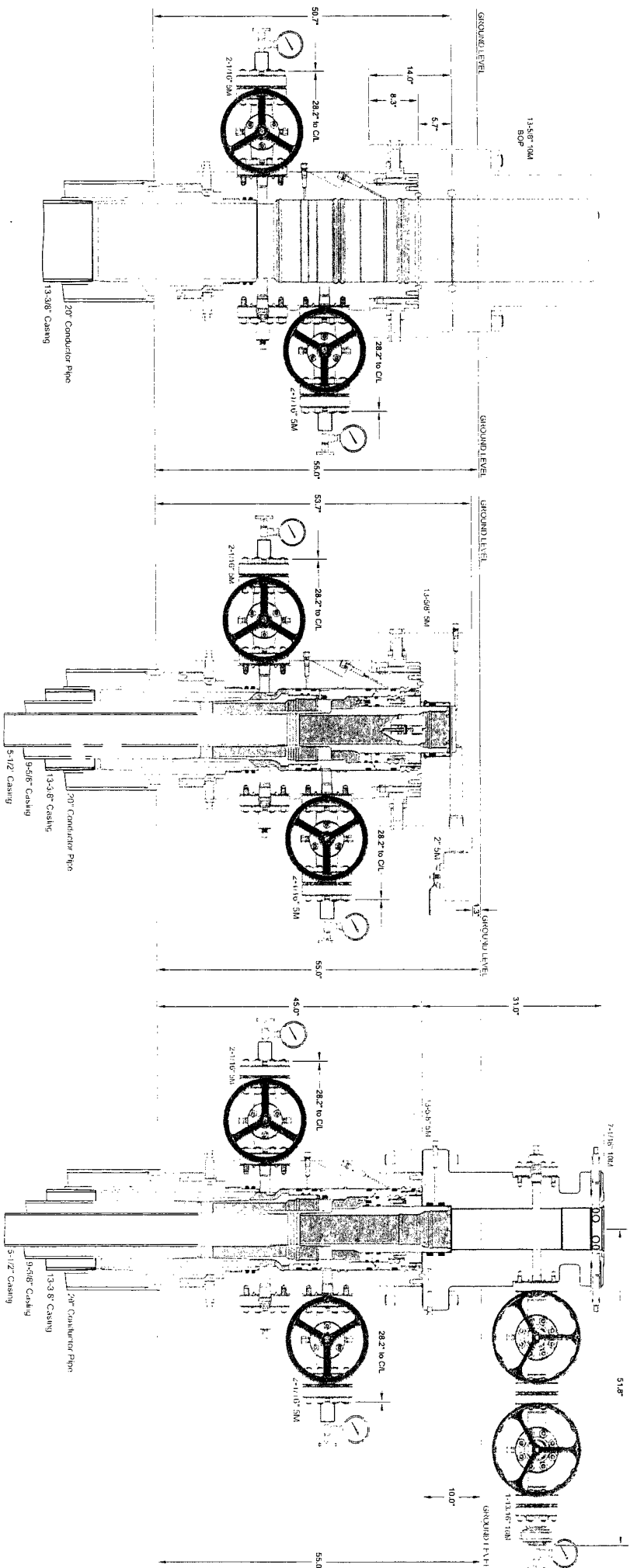
Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0'	400'	13.375"	54.5	J-55	BTC	5.15	1.8	5.19
12.25"	0'	2500'	9.625"	36	J-55	LTC	1.54	2.06	2.58
8.75"	0'	9800'	7"	29	P-110	BTC	1.51	1.15	1.94
6.125"	9000'	14,370'	4.5"	13.5	P-110	BTC	1.66	1.35	2.25
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

## 3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft <sup>3</sup> /sack	H <sub>2</sub> O gal/sk	500# Comp Strength (hours)	Slurry Description
Surf.	399	14.8	1.348	6.52	8.5	HALCEM™ SYSTEM, 1% Calcium Chloride, Pellet
Inter. 1	809	13.5	1.728	9.21	8.75	HALCEM™ SYSTEM, 4% Bentonite
	166	14.8	1.332	6.42	8.25	HALCEM™ SYSTEM
Inter. 2	350	9.5	3.484	16.63	48	NeoCem™
	275	11.5	2.366	14.05	13.75	NeoCem™
	374	15	1.049	4.34	9	NeoCem™
Liner	493	14.5	1.223	5.56	16	VERSACEM™ System, 0.40% Halad®-344, 0.30% HR-601

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.



INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC.  
REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED  
BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

CACTUS WELLHEAD LLC				MARATHON OIL COMPANY	
13-3/8" x 9-5/8" x 5-1/2" 15M MBU-3T-CFL Wellhead System With 13-5/8" 5M x 7-1/16" 10M CTH-DBLHPS Tubing Head & Quick Connect Equipment for Drilling and Skid				DRAWN	DLE
				APPRV	20JUN17
DRAWING NO.				SDT-1076	



Marathon Oil  
Eddy County, NM  
Kyle 34 Federal  
No. 3H  
Prelim Plan C  
GL: 3000' + KB: 25' (H&PXXX)

US State Plane (1983 Edition)  
NAD 1983 (NAD83) CONUS  
Clarke (1866)  
New Mexico East 3001  
Mean Sea Level

RKB Elevation: Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))

+N-S	+E-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	424546.56	579031.87	32.1669376	-104.0779240	

#### SECTION DETAILS

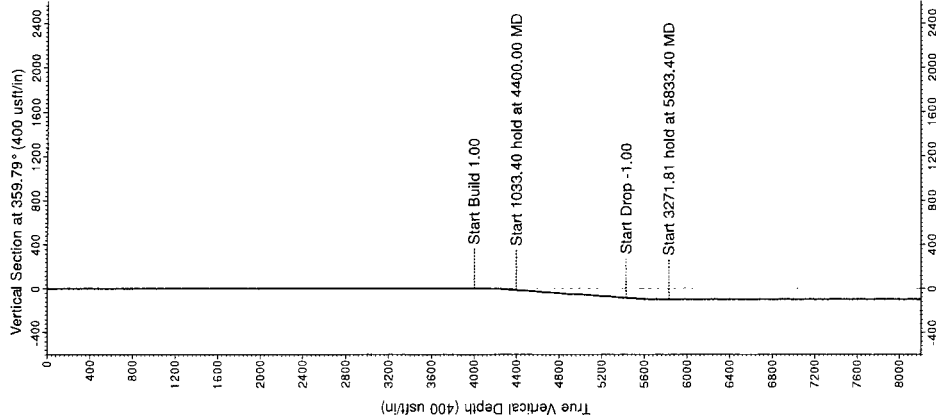
Sec	MD	Inc	Az	TVD	+N-S	+E-W	Dleg	V-Sect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00
3	4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00
4	5433.40	4.00	180.00	5430.55	-86.04	0.00	0.00	-86.04
5	5833.40	0.00	0.00	5830.23	-100.00	0.00	1.00	-100.00
6	9105.21	0.00	0.00	9102.04	-100.00	0.00	0.00	-100.00
7	10005.21	90.00	359.79	9675.00	472.95	-2.07	10.00	472.96
8	14373.39	90.00	359.79	9675.00	4841.11	-17.87	0.00	4841.14

#### WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

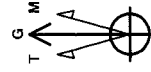
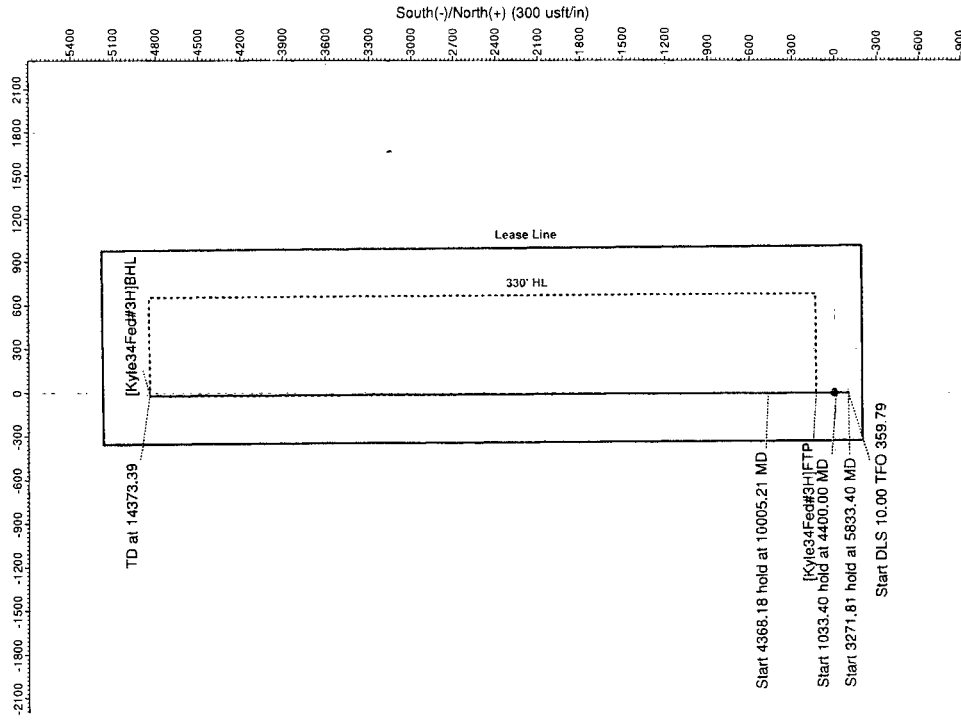
Name	TVD	+N-S	+E-W	Northing	Easting
[Kyle34Fed#3H]FTP	0.00	130.31	-0.61	424576.87	579031.26
[Kyle34Fed#3H]KOP	9145.00	-100.00	0.00	424445.56	579031.87
[Kyle34Fed#3H]BHL	9675.00	4841.11	-17.87	429387.67	579014.00



Target Line: 9675' TVD @ 0' VS: 90° INC



West(-)/East(+) (300 usft/in)

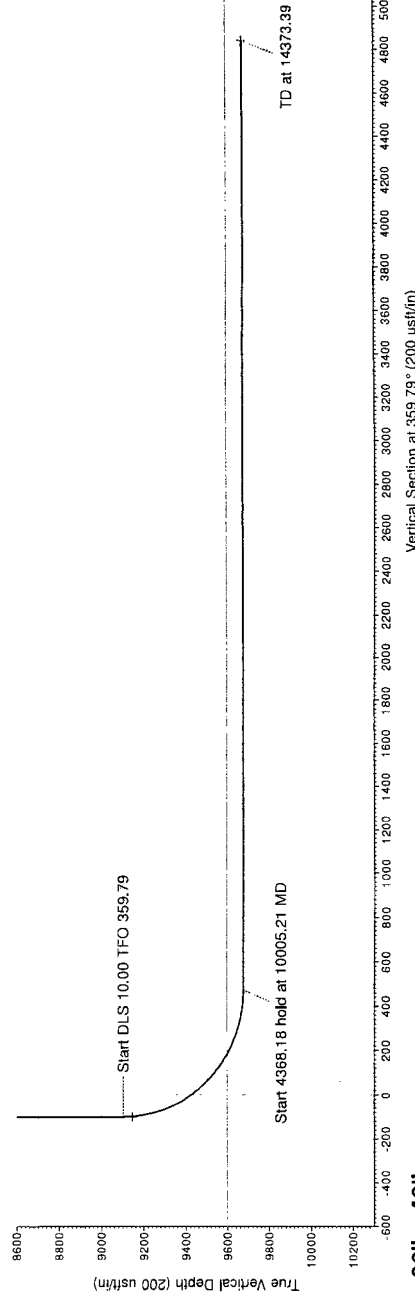


Azimuths to Grid North  
True North: 0.14°  
Magnetic North: 7.13°  
Magnetic Field  
Strength: 48094.66nT  
Dip Angle: 59.96°  
Declination: 7.13°  
Model: IIGMM

#### Azimuth Corrections

Total Magnetic Corr. (M to G): 7.13°  
Declination (M to T): 7.27° East

T. Wolfcamp



Vertical Section at 359.79° (200 usft/in)

36" x 48"

**Company:** Marathon Oil  
**Project:** Eddy County, NM  
**Site:** Kyle 34 Federal  
**Well:** No. 3H  
**Wellbore:** OH  
**Design:** Prelim Plan C

**Local Co-ordinate Reference:** Well No. 3H  
**TVD Reference:** Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))  
**MD Reference:** Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** WellPlanner1

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

**Site** Kyle 34 Federal

<b>Site Position:</b>		<b>Northing:</b>	424,546.56 usft	<b>Latitude:</b>	32.1669376
<b>From:</b>	Map	<b>Easting:</b>	579,031.87 usft	<b>Longitude:</b>	-104.0779240
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.14 °

**Well** No. 3H

<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	424,546.56 usft	<b>Latitude:</b>	32.1669376
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	579,031.87 usft	<b>Longitude:</b>	-104.0779240
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	3,000.00 usft

**Wellbore** OH

<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	6/27/2017	7.27	59.98	48,094.60

**Design** Prelim Plan C

**Audit Notes:**

<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
-----------------	---------------	------	----------------------	------

<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	359.79

**Survey Tool Program** Date 6/28/2017

<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	14,373.35	Prelim Plan C (OH)	MWD+IFR1	OWSG MWD + IFR1

**Planned Survey**

<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
[Kyle34Fed#3H]FTP									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00

**Company:** Marathon Oil  
**Project:** Eddy County, NM  
**Site:** Kyle 34 Federal  
**Well:** No. 3H  
**Wellbore:** OH  
**Design:** Prelim Plan C

**Local Co-ordinate Reference:** Well No. 3H  
**TVD Reference:** Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))  
**MD Reference:** Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** WellPlanner1

### 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)
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	1.00	180.00	4,100.00	-0.87	0.00	-0.87	1.00	1.00	0.00
4,200.00	2.00	180.00	4,199.96	-3.49	0.00	-3.49	1.00	1.00	0.00
4,300.00	3.00	180.00	4,299.86	-7.85	0.00	-7.85	1.00	1.00	0.00
4,400.00	4.00	180.00	4,399.68	-13.96	0.00	-13.96	1.00	1.00	0.00
4,500.00	4.00	180.00	4,499.43	-20.93	0.00	-20.93	0.00	0.00	0.00
4,600.00	4.00	180.00	4,599.19	-27.91	0.00	-27.91	0.00	0.00	0.00
4,700.00	4.00	180.00	4,698.94	-34.88	0.00	-34.88	0.00	0.00	0.00
4,800.00	4.00	180.00	4,798.70	-41.86	0.00	-41.86	0.00	0.00	0.00
4,900.00	4.00	180.00	4,898.46	-48.84	0.00	-48.83	0.00	0.00	0.00

**Company:** Marathon Oil  
**Project:** Eddy County, NM  
**Site:** Kyle 34 Federal  
**Well:** No. 3H  
**Wellbore:** OH  
**Design:** Prelim Plan C

**Local Co-ordinate Reference:** Well No. 3H  
**TVD Reference:** Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))  
**MD Reference:** Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** WellPlanner1

### 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)
5,000.00	4.00	180.00	4,998.21	-55.81	0.00	-55.81	0.00	0.00	0.00
5,100.00	4.00	180.00	5,097.97	-62.79	0.00	-62.79	0.00	0.00	0.00
5,200.00	4.00	180.00	5,197.73	-69.76	0.00	-69.76	0.00	0.00	0.00
5,300.00	4.00	180.00	5,297.48	-76.74	0.00	-76.74	0.00	0.00	0.00
5,400.00	4.00	180.00	5,397.24	-83.71	0.00	-83.71	0.00	0.00	0.00
5,433.40	4.00	180.00	5,430.55	-86.04	0.00	-86.04	0.00	0.00	0.00
5,500.00	3.33	180.00	5,497.02	-90.30	0.00	-90.30	1.00	-1.00	0.00
5,600.00	2.33	180.00	5,596.90	-95.25	0.00	-95.25	1.00	-1.00	0.00
5,700.00	1.33	180.00	5,696.85	-98.45	0.00	-98.45	1.00	-1.00	0.00
5,800.00	0.33	180.00	5,796.83	-99.90	0.00	-99.90	1.00	-1.00	0.00
5,833.40	0.00	0.00	5,830.23	-100.00	0.00	-100.00	1.00	-1.00	0.00
5,900.00	0.00	0.00	5,896.83	-100.00	0.00	-100.00	0.00	0.00	0.00
6,000.00	0.00	0.00	5,996.83	-100.00	0.00	-100.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,096.83	-100.00	0.00	-100.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,196.83	-100.00	0.00	-100.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,296.83	-100.00	0.00	-100.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,396.83	-100.00	0.00	-100.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,496.83	-100.00	0.00	-100.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,596.83	-100.00	0.00	-100.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,696.83	-100.00	0.00	-100.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,796.83	-100.00	0.00	-100.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,896.83	-100.00	0.00	-100.00	0.00	0.00	0.00
7,000.00	0.00	0.00	6,996.83	-100.00	0.00	-100.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,096.83	-100.00	0.00	-100.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,196.83	-100.00	0.00	-100.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,296.83	-100.00	0.00	-100.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,396.83	-100.00	0.00	-100.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,496.83	-100.00	0.00	-100.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,596.83	-100.00	0.00	-100.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,696.83	-100.00	0.00	-100.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,796.83	-100.00	0.00	-100.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,896.83	-100.00	0.00	-100.00	0.00	0.00	0.00
8,000.00	0.00	0.00	7,996.83	-100.00	0.00	-100.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,096.83	-100.00	0.00	-100.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,196.83	-100.00	0.00	-100.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,296.83	-100.00	0.00	-100.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,396.83	-100.00	0.00	-100.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,496.83	-100.00	0.00	-100.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,596.83	-100.00	0.00	-100.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,696.83	-100.00	0.00	-100.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,796.83	-100.00	0.00	-100.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,896.83	-100.00	0.00	-100.00	0.00	0.00	0.00

**Company:** Marathon Oil  
**Project:** Eddy County, NM  
**Site:** Kyle 34 Federal  
**Well:** No. 3H  
**Wellbore:** OH  
**Design:** Prelim Plan C

**Local Co-ordinate Reference:** Well No. 3H  
**TVD Reference:** Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))  
**MD Reference:** Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** WellPlanner1

### 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)
9,000.00	0.00	0.00	8,996.83	-100.00	0.00	-100.00	0.00	0.00	0.00
9,105.21	0.00	0.00	9,102.04	-100.00	0.00	-100.00	0.00	0.00	0.00
9,148.15	4.29	359.79	9,144.94	-98.39	-0.01	-98.39	10.00	10.00	0.00
<b>[Kyle34Fed#3H]KOP</b>									
9,150.00	4.48	359.79	9,146.79	-98.25	-0.01	-98.25	10.00	10.00	0.00
9,200.00	9.48	359.79	9,196.40	-92.18	-0.03	-92.18	10.00	10.00	0.00
9,250.00	14.48	359.79	9,245.30	-81.80	-0.07	-81.80	10.00	10.00	0.00
9,300.00	19.48	359.79	9,293.10	-67.21	-0.12	-67.20	10.00	10.00	0.00
9,350.00	24.48	359.79	9,339.45	-48.50	-0.19	-48.50	10.00	10.00	0.00
9,400.00	29.48	359.79	9,384.00	-25.82	-0.27	-25.82	10.00	10.00	0.00
9,450.00	34.48	359.79	9,426.40	0.65	-0.36	0.65	10.00	10.00	0.00
9,500.00	39.48	359.79	9,466.33	30.72	-0.47	30.72	10.00	10.00	0.00
9,550.00	44.48	359.79	9,503.48	64.15	-0.59	64.15	10.00	10.00	0.00
9,600.00	49.48	359.79	9,537.59	100.69	-0.73	100.69	10.00	10.00	0.00
9,650.00	54.48	359.79	9,568.37	140.07	-0.87	140.07	10.00	10.00	0.00
9,700.00	59.48	359.79	9,595.61	181.98	-1.02	181.98	10.00	10.00	0.00
9,706.74	60.15	359.79	9,599.00	187.80	-1.04	187.81	10.00	10.00	0.00
<b>T. Wolfcamp</b>									
9,750.00	64.48	359.79	9,619.09	226.10	-1.18	226.11	10.00	10.00	0.00
9,800.00	69.48	359.79	9,638.64	272.11	-1.35	272.11	10.00	10.00	0.00
9,850.00	74.48	359.79	9,654.10	319.64	-1.52	319.64	10.00	10.00	0.00
9,900.00	79.48	359.79	9,665.37	368.34	-1.69	368.34	10.00	10.00	0.00
9,950.00	84.48	359.79	9,672.34	417.83	-1.87	417.84	10.00	10.00	0.00
10,000.00	89.48	359.79	9,674.97	467.75	-2.05	467.75	10.00	10.00	0.00
10,005.21	90.00	359.79	9,675.00	472.95	-2.07	472.96	10.00	10.00	0.00
10,100.00	90.00	359.79	9,675.00	567.75	-2.41	567.75	0.00	0.00	0.00
10,200.00	90.00	359.79	9,675.00	667.75	-2.78	667.75	0.00	0.00	0.00
10,300.00	90.00	359.79	9,675.00	767.75	-3.14	767.75	0.00	0.00	0.00
10,400.00	90.00	359.79	9,675.00	867.74	-3.50	867.75	0.00	0.00	0.00
10,500.00	90.00	359.79	9,675.00	967.74	-3.86	967.75	0.00	0.00	0.00
10,600.00	90.00	359.79	9,675.00	1,067.74	-4.22	1,067.75	0.00	0.00	0.00
10,700.00	90.00	359.79	9,675.00	1,167.74	-4.58	1,167.75	0.00	0.00	0.00
10,800.00	90.00	359.79	9,675.00	1,267.74	-4.95	1,267.75	0.00	0.00	0.00
10,900.00	90.00	359.79	9,675.00	1,367.74	-5.31	1,367.75	0.00	0.00	0.00
11,000.00	90.00	359.79	9,675.00	1,467.74	-5.67	1,467.75	0.00	0.00	0.00
11,100.00	90.00	359.79	9,675.00	1,567.74	-6.03	1,567.75	0.00	0.00	0.00
11,200.00	90.00	359.79	9,675.00	1,667.74	-6.39	1,667.75	0.00	0.00	0.00
11,300.00	90.00	359.79	9,675.00	1,767.74	-6.75	1,767.75	0.00	0.00	0.00
11,400.00	90.00	359.79	9,675.00	1,867.74	-7.12	1,867.75	0.00	0.00	0.00
11,500.00	90.00	359.79	9,675.00	1,967.74	-7.48	1,967.75	0.00	0.00	0.00
11,600.00	90.00	359.79	9,675.00	2,067.74	-7.84	2,067.75	0.00	0.00	0.00
11,700.00	90.00	359.79	9,675.00	2,167.74	-8.20	2,167.75	0.00	0.00	0.00

Company: Marathon Oil  
Project: Eddy County, NM  
  
Site: Kyle 34 Federal  
  
Well: No. 3H  
Wellbore: OH  
Design: Prelim Plan C

Local Co-ordinate Reference: Well No. 3H  
TVD Reference: Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))  
MD Reference: Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: WellPlanner1

#### 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)
11,800.00	90.00	359.79	9,675.00	2,267.74	-8.56	2,267.75	0.00	0.00	0.00
11,900.00	90.00	359.79	9,675.00	2,367.73	-8.92	2,367.75	0.00	0.00	0.00
12,000.00	90.00	359.79	9,675.00	2,467.73	-9.29	2,467.75	0.00	0.00	0.00
12,100.00	90.00	359.79	9,675.00	2,567.73	-9.65	2,567.75	0.00	0.00	0.00
12,200.00	90.00	359.79	9,675.00	2,667.73	-10.01	2,667.75	0.00	0.00	0.00
12,300.00	90.00	359.79	9,675.00	2,767.73	-10.37	2,767.75	0.00	0.00	0.00
12,400.00	90.00	359.79	9,675.00	2,867.73	-10.73	2,867.75	0.00	0.00	0.00
12,500.00	90.00	359.79	9,675.00	2,967.73	-11.09	2,967.75	0.00	0.00	0.00
12,600.00	90.00	359.79	9,675.00	3,067.73	-11.46	3,067.75	0.00	0.00	0.00
12,700.00	90.00	359.79	9,675.00	3,167.73	-11.82	3,167.75	0.00	0.00	0.00
12,800.00	90.00	359.79	9,675.00	3,267.73	-12.18	3,267.75	0.00	0.00	0.00
12,900.00	90.00	359.79	9,675.00	3,367.73	-12.54	3,367.75	0.00	0.00	0.00
13,000.00	90.00	359.79	9,675.00	3,467.73	-12.90	3,467.75	0.00	0.00	0.00
13,100.00	90.00	359.79	9,675.00	3,567.73	-13.26	3,567.75	0.00	0.00	0.00
13,200.00	90.00	359.79	9,675.00	3,667.73	-13.63	3,667.75	0.00	0.00	0.00
13,300.00	90.00	359.79	9,675.00	3,767.73	-13.99	3,767.75	0.00	0.00	0.00
13,400.00	90.00	359.79	9,675.00	3,867.72	-14.35	3,867.75	0.00	0.00	0.00
13,500.00	90.00	359.79	9,675.00	3,967.72	-14.71	3,967.75	0.00	0.00	0.00
13,600.00	90.00	359.79	9,675.00	4,067.72	-15.07	4,067.75	0.00	0.00	0.00
13,700.00	90.00	359.79	9,675.00	4,167.72	-15.43	4,167.75	0.00	0.00	0.00
13,800.00	90.00	359.79	9,675.00	4,267.72	-15.80	4,267.75	0.00	0.00	0.00
13,900.00	90.00	359.79	9,675.00	4,367.72	-16.16	4,367.75	0.00	0.00	0.00
14,000.00	90.00	359.79	9,675.00	4,467.72	-16.52	4,467.75	0.00	0.00	0.00
14,100.00	90.00	359.79	9,675.00	4,567.72	-16.88	4,567.75	0.00	0.00	0.00
14,200.00	90.00	359.79	9,675.00	4,667.72	-17.24	4,667.75	0.00	0.00	0.00
14,300.00	90.00	359.79	9,675.00	4,767.72	-17.60	4,767.75	0.00	0.00	0.00
14,373.39	90.00	359.79	9,675.00	4,841.11	-17.87	4,841.14	0.00	0.00	0.00

[Kyle34Fed#3H]BHL

#### Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[Kyle34Fed#3H]FTP	0.00	0.00	0.00	130.31	-0.61	424,676.87	579,031.26	32.1672959	-104.0779249
- hit/miss target									
- Shape									
- plan misses target center by 130.31usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
[Kyle34Fed#3H]KOP	0.00	0.01	9,145.00	-100.00	0.00	424,446.56	579,031.87	32.1666627	-104.0779247
- hit/miss target									
- Shape									
- plan misses target center by 1.61usft at 9148.15usft MD (9144.94 TVD, -98.39 N, -0.01 E)									
- Point									
[Kyle34Fed#3H]BHL	0.00	0.00	9,675.00	4,841.11	-17.87	429,387.67	579,014.00	32.1802459	-104.0779446
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

**Company:** Marathon Oil  
**Project:** Eddy County, NM  
**Site:** Kyle 34 Federal  
**Well:** No. 3H  
**Wellbore:** OH  
**Design:** Prelim Plan C

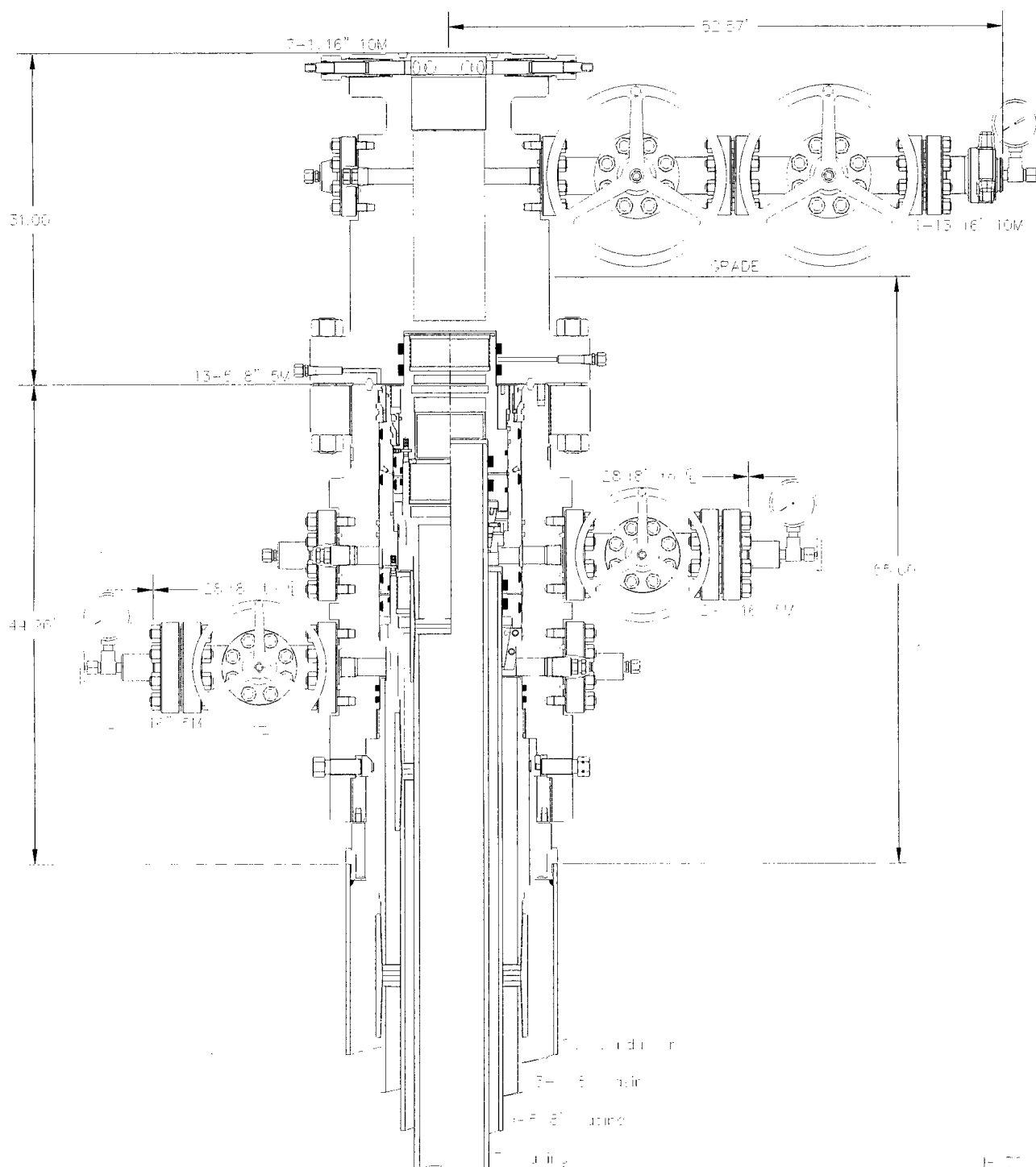
**Local Co-ordinate Reference:** Well No. 3H  
**TVD Reference:** Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))  
**MD Reference:** Well @ 3025.00usft (GL: 3000' + KB: 25' (H&PXXX))  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** WellPlanner1

### Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
9,706.74	9,599.00	T. Wolfcamp		0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

## System Drawing



## PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Nadel & Gussman Permian LLC
LEASE NO.:	NM102911
WELL NAME & NO.:	3H-Kyle 34 Federal
SURFACE HOLE FOOTAGE:	150'/S & 1650'/W
BOTTOM HOLE FOOTAGE	330'/N & 1650'/W
LOCATION:	Section 34, T. 24 S., R. 28 E., NMPM
COUNTY:	Eddy County, New Mexico

### TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

## I. DRILLING

### A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

1. **Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM. Operator has stated that they will have monitoring equipment in place prior to drilling out of the surface shoe.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

## **B. CASING**

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

### **Wait on cement (WOC) for Potash Areas:**

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.

### **Wait on cement (WOC) for Water Basin:**

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

**CRITICAL CAVE/KARST AREAS.** THE CEMENT MUST BE IN A SOLID SHEATH. THEREFORE, ONE INCH OPERATIONS ARE NOT SUFFICIENT

**TO PROTECT CAVE KARST RESOURCES. A CASING DESIGN THAT HAS A ONE INCH JOB PERFORMED DOES NOT COUNT AS A SOLID SHEATH.**

**Critical Cave/Karst**

**Possibility of water flows in the top of salt and the Castile.**

**Possibility of lost circulation in the Rustler, Red Beds and Delaware.**

1. The **13-3/8** inch surface casing shall be set at approximately **400** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing, which shall be set at approximately **2500** feet, is:
  - ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

**Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.**

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
  - ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. Operator shall provide method of verification.

4. The minimum required fill of cement behind the 4-1/2 inch production liner is:

☒ Cement should tie-back to the top of the liner. Operator shall provide method of verification.

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

### C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. **In the case where the only BOP installed is an annular preventer, it shall be tested to a minimum of 2000 psi (which may require upgrading to 3M or 5M annular).**
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi.**
4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be **5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug ((against the intermediate casing only, in this case) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

#### **D. DRILL STEM TEST**

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

#### **E. WASTE MATERIAL AND FLUIDS**

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**TMAK 08072017**

Critical Cave Karst: three casing strings with cement circulated on each.

13 3/8 Segment	surface csg in a #/ft	17 1/2 Grade	inch hole. Coupling	Body	Design Factors		SURFACE		
"A"	54.50	J 55	BUTT	39.14	Collapse	Burst	Length	Weight	
"B"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500				Tail Cmt	does	circ to sfc.	Totals:	400	21,800
Comparison of Proposed to Minimum Required Cement Volumes									
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	399	538	332	62	8.80	775	2M	1.56

9 5/8 Segment	casing inside the #/ft	13 3/8 Grade	Coupling	Joint	Design Factors		INTERMEDIATE		
"A"	36.00	J 55	LT&C	5.03	Collapse	Burst	Length	Weight	
"B"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,373							Totals:	2,500	90,000
The cement volume(s) are intended to achieve a top of				0	ft from surface or a		400	overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
12 1/4	0.3132	975	1619	822	97	10.20	2528	3M	0.81

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 1.41, b, c, d All &gt; 0.70, OK.

7 Segment	casing inside the #/ft	9 5/8 Grade	Coupling	Body	Design Factors		PRODUCTION		
"A"	29.00	P 110	BUTT	3.27	Collapse	Burst	Length	Weight	
"B"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,156							Totals:	9,800	284,200
The cement volume(s) are intended to achieve a top of				0	ft from surface or a		2500	overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
8 3/4	0.1503	999	2261	1524	48	9.20	4003	5M	0.55

Tail cmt proposed for the csg below could overlap the previous csg shoe.

4 1/2 Segment	Liner w/top @ 9000 #/ft	Grade	Coupling	Body	Design Factors		LINER		
"A"	13.50	P 110	BUTT	5.82	Collapse	Burst	Length	Weight	
"B"	13.50	P 110	BUTT	9.18	Collapse	Burst	Length	Weight	
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,003							Totals:	5,370	72,495
B Segment Design Factors would be:				5.94	1.74	if it were a vertical wellbore.			
No Pilot Hole Planned				MTD	Max VTD	Csg VD	Curve KOP	Dogleg <sup>o</sup>	Severity <sup>o</sup>
				14370	9675	9675	9105	90	10
				Liner top	9000	ft from surface or a		800	overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
6 1/8	0.0942	493	603	513	17.64	12.20			0.56

Office of Energy, Minerals & Natural Resources  
 1220 S. St. Francis Dr., Santa Fe, NM 87505  
 Phone: (505) 476-3460 Fax: (505) 476-3462  
 District II  
 811 S. First St., Artesia, NM 88210  
 Phone: (505) 748-1283 Fax: (505) 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, NM 87505

Revised August 1, 2011  
 Submit one copy to appropriate  
 District Office

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number <b>30-015-43405</b>	<sup>2</sup> Pool Code <b>98220</b> <del>96415</del>	<sup>3</sup> Pool Name <b>PURPLE SAGE; WOLFCAMP</b>
<sup>4</sup> Property Code <b>26599</b>	<sup>5</sup> Property Name <b>KYLE 34 FEDERAL</b>	<sup>6</sup> Well Number <b>3H</b>
<sup>7</sup> OGRID No. <b>372098</b>	<sup>8</sup> Operator Name <b>MARATHON OIL PERMIAN, LLC.</b>	<sup>9</sup> Elevation <b>3000</b>

**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	34	T24S	R28E		200	SOUTH	1670	WEST	EDDY

**Bottom Hole Location If Different From Surface**

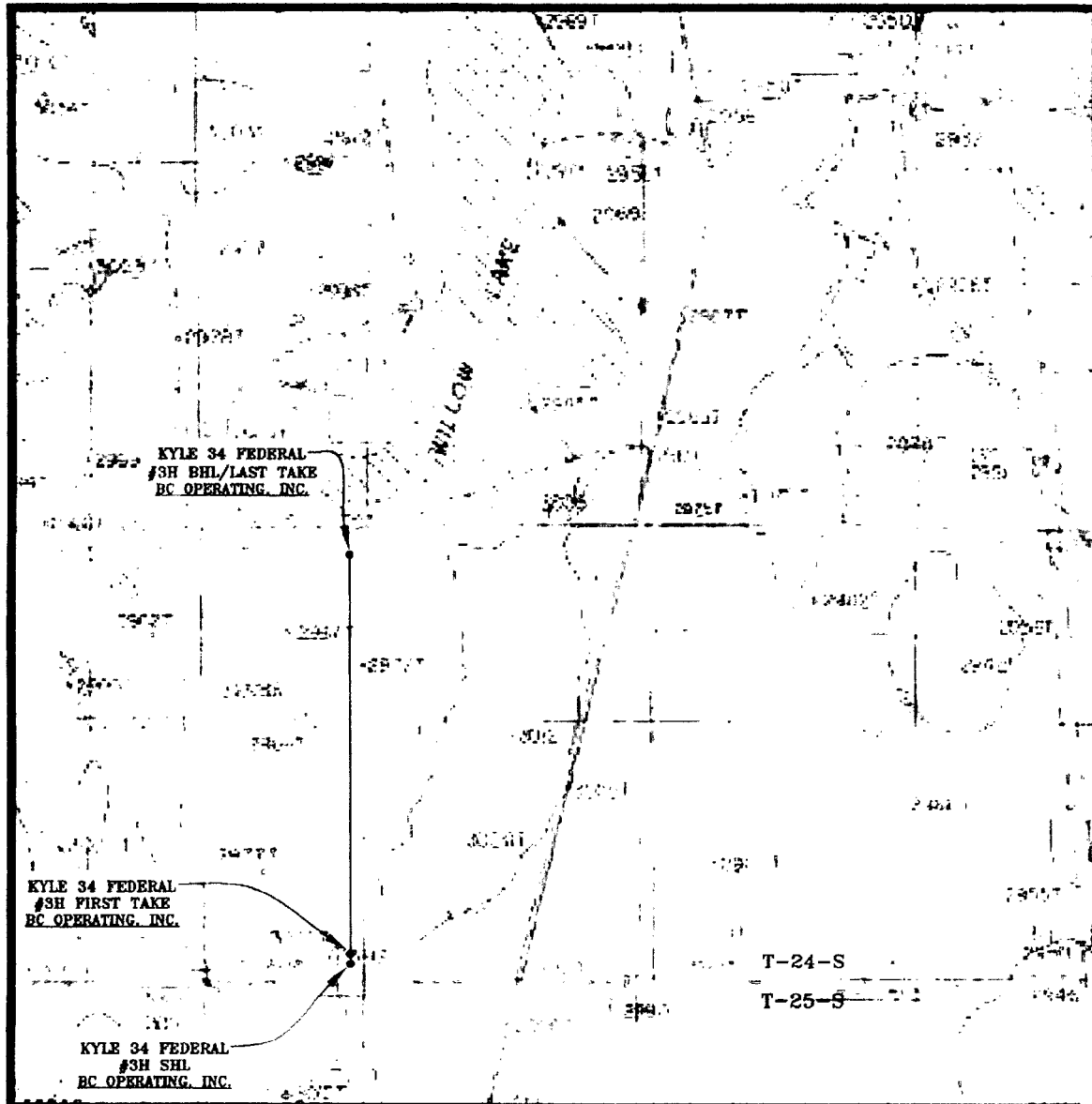
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	34	T24S	R28E		330	NORTH	1670	WEST	EDDY

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
320			

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.

<p><b>SECTION 28</b></p> <p><b>SECTION 33</b></p> <p><b>SECTION 34</b></p> <p><b>SECTION 35</b></p> <p><b>SECTION 4</b></p> <p><b>SECTION 3</b></p> <p><b>SECTION 2</b></p> <p><b>SECTION 1</b></p> <p><b>SECTION 36</b></p> <p><b>SECTION 37</b></p> <p><b>SECTION 38</b></p> <p><b>SECTION 39</b></p> <p><b>SECTION 40</b></p> <p><b>SECTION 41</b></p> <p><b>SECTION 42</b></p> <p><b>SECTION 43</b></p> <p><b>SECTION 44</b></p> <p><b>SECTION 45</b></p> <p><b>SECTION 46</b></p> <p><b>SECTION 47</b></p> <p><b>SECTION 48</b></p> <p><b>SECTION 49</b></p> <p><b>SECTION 50</b></p> <p><b>SECTION 51</b></p> <p><b>SECTION 52</b></p> <p><b>SECTION 53</b></p> <p><b>SECTION 54</b></p> <p><b>SECTION 55</b></p> <p><b>SECTION 56</b></p> <p><b>SECTION 57</b></p> <p><b>SECTION 58</b></p> <p><b>SECTION 59</b></p> <p><b>SECTION 60</b></p> <p><b>SECTION 61</b></p> <p><b>SECTION 62</b></p> <p><b>SECTION 63</b></p> <p><b>SECTION 64</b></p> <p><b>SECTION 65</b></p> <p><b>SECTION 66</b></p> <p><b>SECTION 67</b></p> <p><b>SECTION 68</b></p> <p><b>SECTION 69</b></p> <p><b>SECTION 70</b></p> <p><b>SECTION 71</b></p> <p><b>SECTION 72</b></p> <p><b>SECTION 73</b></p> <p><b>SECTION 74</b></p> <p><b>SECTION 75</b></p> <p><b>SECTION 76</b></p> <p><b>SECTION 77</b></p> <p><b>SECTION 78</b></p> <p><b>SECTION 79</b></p> <p><b>SECTION 80</b></p> <p><b>SECTION 81</b></p> <p><b>SECTION 82</b></p> <p><b>SECTION 83</b></p> <p><b>SECTION 84</b></p> <p><b>SECTION 85</b></p> <p><b>SECTION 86</b></p> <p><b>SECTION 87</b></p> <p><b>SECTION 88</b></p> <p><b>SECTION 89</b></p> <p><b>SECTION 90</b></p> <p><b>SECTION 91</b></p> <p><b>SECTION 92</b></p> <p><b>SECTION 93</b></p> <p><b>SECTION 94</b></p> <p><b>SECTION 95</b></p> <p><b>SECTION 96</b></p> <p><b>SECTION 97</b></p> <p><b>SECTION 98</b></p> <p><b>SECTION 99</b></p> <p><b>SECTION 100</b></p> <p><b>SECTION 101</b></p> <p><b>SECTION 102</b></p> <p><b>SECTION 103</b></p> <p><b>SECTION 104</b></p> <p><b>SECTION 105</b></p> <p><b>SECTION 106</b></p> <p><b>SECTION 107</b></p> <p><b>SECTION 108</b></p> <p><b>SECTION 109</b></p> <p><b>SECTION 110</b></p> <p><b>SECTION 111</b></p> <p><b>SECTION 112</b></p> <p><b>SECTION 113</b></p> <p><b>SECTION 114</b></p> <p><b>SECTION 115</b></p> <p><b>SECTION 116</b></p> <p><b>SECTION 117</b></p> <p><b>SECTION 118</b></p> <p><b>SECTION 119</b></p> <p><b>SECTION 120</b></p> <p><b>SECTION 121</b></p> <p><b>SECTION 122</b></p> <p><b>SECTION 123</b></p> <p><b>SECTION 124</b></p> <p><b>SECTION 125</b></p> <p><b>SECTION 126</b></p> <p><b>SECTION 127</b></p> <p><b>SECTION 128</b></p> <p><b>SECTION 129</b></p> <p><b>SECTION 130</b></p> <p><b>SECTION 131</b></p> <p><b>SECTION 132</b></p> <p><b>SECTION 133</b></p> <p><b>SECTION 134</b></p> <p><b>SECTION 135</b></p> <p><b>SECTION 136</b></p> <p><b>SECTION 137</b></p> <p><b>SECTION 138</b></p> <p><b>SECTION 139</b></p> <p><b>SECTION 140</b></p> <p><b>SECTION 141</b></p> <p><b>SECTION 142</b></p> <p><b>SECTION 143</b></p> <p><b>SECTION 144</b></p> <p><b>SECTION 145</b></p> <p><b>SECTION 146</b></p> <p><b>SECTION 147</b></p> <p><b>SECTION 148</b></p> <p><b>SECTION 149</b></p> <p><b>SECTION 150</b></p> <p><b>SECTION 151</b></p> <p><b>SECTION 152</b></p> <p><b>SECTION 153</b></p> <p><b>SECTION 154</b></p> <p><b>SECTION 155</b></p> <p><b>SECTION 156</b></p> <p><b>SECTION 157</b></p> <p><b>SECTION 158</b></p> <p><b>SECTION 159</b></p> <p><b>SECTION 160</b></p> <p><b>SECTION 161</b></p> <p><b>SECTION 162</b></p> <p><b>SECTION 163</b></p> <p><b>SECTION 164</b></p> <p><b>SECTION 165</b></p> <p><b>SECTION 166</b></p> <p><b>SECTION 167</b></p> <p><b>SECTION 168</b></p> <p><b>SECTION 169</b></p> <p><b>SECTION 170</b></p> <p><b>SECTION 171</b></p> <p><b>SECTION 172</b></p> <p><b>SECTION 173</b></p> <p><b>SECTION 174</b></p> <p><b>SECTION 175</b></p> <p><b>SECTION 176</b></p> <p><b>SECTION 177</b></p> <p><b>SECTION 178</b></p> <p><b>SECTION 179</b></p> <p><b>SECTION 180</b></p> <p><b>SECTION 181</b></p> <p><b>SECTION 182</b></p> <p><b>SECTION 183</b></p> <p><b>SECTION 184</b></p> <p><b>SECTION 185</b></p> <p><b>SECTION 186</b></p> <p><b>SECTION 187</b></p> <p><b>SECTION 188</b></p> <p><b>SECTION 189</b></p> <p><b>SECTION 190</b></p> <p><b>SECTION 191</b></p> <p><b>SECTION 192</b></p> <p><b>SECTION 193</b></p> <p><b>SECTION 194</b></p> <p><b>SECTION 195</b></p> <p><b>SECTION 196</b></p> <p><b>SECTION 197</b></p> <p><b>SECTION 198</b></p> <p><b>SECTION 199</b></p> <p><b>SECTION 200</b></p> <p><b>SECTION 201</b></p> <p><b>SECTION 202</b></p> <p><b>SECTION 203</b></p> <p><b>SECTION 204</b></p> <p><b>SECTION 205</b></p> <p><b>SECTION 206</b></p> <p><b>SECTION 207</b></p> <p><b>SECTION 208</b></p> <p><b>SECTION 209</b></p> <p><b>SECTION 210</b></p> <p><b>SECTION 211</b></p> <p><b>SECTION 212</b></p> <p><b>SECTION 213</b></p> <p><b>SECTION 214</b></p> <p><b>SECTION 215</b></p> <p><b>SECTION 216</b></p> <p><b>SECTION 217</b></p> <p><b>SECTION 218</b></p> <p><b>SECTION 219</b></p> <p><b>SECTION 220</b></p> <p><b>SECTION 221</b></p> <p><b>SECTION 222</b></p> <p><b>SECTION 223</b></p> <p><b>SECTION 224</b></p> <p><b>SECTION 225</b></p> <p><b>SECTION 226</b></p> <p><b>SECTION 227</b></p> <p><b>SECTION 228</b></p> <p><b>SECTION 229</b></p> <p><b>SECTION 230</b></p> <p><b>SECTION 231</b></p> <p><b>SECTION 232</b></p> <p><b>SECTION 233</b></p> <p><b>SECTION 234</b></p> <p><b>SECTION 235</b></p> <p><b>SECTION 236</b></p> <p><b>SECTION 237</b></p> <p><b>SECTION 238</b></p> <p><b>SECTION 239</b></p> <p><b>SECTION 240</b></p> <p><b>SECTION 241</b></p> <p><b>SECTION 242</b></p> <p><b>SECTION 243</b></p> <p><b>SECTION 244</b></p> <p><b>SECTION 245</b></p> <p><b>SECTION 246</b></p> <p><b>SECTION 247</b></p> <p><b>SECTION 248</b></p> <p><b>SECTION 249</b></p> <p><b>SECTION 250</b></p> <p><b>SECTION 251</b></p> <p><b>SECTION 252</b></p> <p><b>SECTION 253</b></p> <p><b>SECTION 254</b></p> <p><b>SECTION 255</b></p> <p><b>SECTION 256</b></p> <p><b>SECTION 257</b></p> <p><b>SECTION 258</b></p> <p><b>SECTION 259</b></p> <p><b>SECTION 260</b></p> <p><b>SECTION 261</b></p> <p><b>SECTION 262</b></p> <p><b>SECTION 263</b></p> <p><b>SECTION 264</b></p> <p><b>SECTION 265</b></p> <p><b>SECTION 266</b></p> <p><b>SECTION 267</b></p> <p><b>SECTION 268</b></p> <p><b>SECTION 269</b></p> <p><b>SECTION 270</b></p> <p><b>SECTION 271</b></p> <p><b>SECTION 272</b></p> <p><b>SECTION 273</b></p> <p><b>SECTION 274</b></p> <p><b>SECTION 275</b></p> <p><b>SECTION 276</b></p> <p><b>SECTION 277</b></p> <p><b>SECTION 278</b></p> <p><b>SECTION 279</b></p> <p><b>SECTION 280</b></p> <p><b>SECTION 281</b></p> <p><b>SECTION 282</b></p> <p><b>SECTION 283</b></p> <p><b>SECTION 284</b></p> <p><b>SECTION 285</b></p> <p><b>SECTION 286</b></p> <p><b>SECTION 287</b></p> <p><b>SECTION 288</b></p> <p><b>SECTION 289</b></p> <p><b>SECTION 290</b></p> <p><b>SECTION 291</b></p> <p><b>SECTION 292</b></p> <p><b>SECTION 293</b></p> <p><b>SECTION 294</b></p> <p><b>SECTION 295</b></p> <p><b>SECTION 296</b></p> <p><b>SECTION 297</b></p> <p><b>SECTION 298</b></p> <p><b>SECTION 299</b></p> <p><b>SECTION 300</b></p> <p><b>SECTION 301</b></p> <p><b>SECTION 302</b></p> <p><b>SECTION 303</b></p> <p><b>SECTION 304</b></p> <p><b>SECTION 305</b></p> <p><b>SECTION 306</b></p> <p><b>SECTION 307</b></p> <p><b>SECTION 308</b></p> <p><b>SECTION 309</b></p> <p><b>SECTION 310</b></p> <p><b>SECTION 311</b></p> <p><b>SECTION 312</b></p> <p><b>SECTION 313</b></p> <p><b>SECTION 314</b></p> <p><b>SECTION 315</b></p> <p><b>SECTION 316</b></p> <p><b>SECTION 317</b></p> <p><b>SECTION 318</b></p> <p><b>SECTION 319</b></p> <p><b>SECTION 320</b></p> <p><b>SECTION 321</b></p> <p><b>SECTION 322</b></p> <p><b>SECTION 323</b></p> <p><b>SECTION 324</b></p> <p><b>SECTION 325</b></p> <p><b>SECTION 326</b></p> <p><b>SECTION 327</b></p> <p><b>SECTION 328</b></p> <p><b>SECTION 329</b></p> <p><b>SECTION 330</b></p> <p><b>SECTION 331</b></p> <p><b>SECTION 332</b></p> <p><b>SECTION 333</b></p> <p><b>SECTION 334</b></p> <p><b>SECTION 335</b></p> <p><b>SECTION 336</b></p> <p><b>SECTION 337</b></p> <p><b>SECTION 338</b></p> <p><b>SECTION 339</b></p> <p><b>SECTION 340</b></p> <p><b>SECTION 341</b></p> <p><b>SECTION 342</b></p> <p><b>SECTION 343</b></p> <p><b>SECTION 344</b></p> <p><b>SECTION 345</b></p> <p><b>SECTION 346</b></p> <p><b>SECTION 347</b></p> <p><b>SECTION 348</b></p> <p><b>SECTION 349</b></p> <p><b>SECTION 350</b></p> <p><b>SECTION 351</b></p> <p><b>SECTION 352</b></p> <p><b>SECTION 353</b></p> <p><b>SECTION 354</b></p> <p><b>SECTION 355</b></p> <p><b>SECTION 356</b></p> <p><b>SECTION 357</b></p> <p><b>SECTION 358</b></p> <p><b>SECTION 359</b></p> <p><b>SECTION 360</b></p> <p><b>SECTION 361</b></p> <p><b>SECTION 362</b></p> <p><b>SECTION 363</b></p> <p><b>SECTION 364</b></p> <p><b>SECTION 365</b></p> <p><b>SECTION 366</b></p> <p><b>SECTION 367</b></p> <p><b>SECTION 368</b></p> <p><b>SECTION 369</b></p> <p><b>SECTION 370</b></p> <p><b>SECTION 371</b></p> <p><b>SECTION 372</b></p> <p><b>SECTION 373</b></p> <p><b>SECTION 374</b></p> <p><b>SECTION 375</b></p> <p><b>SECTION 376</b></p> <p><b>SECTION 377</b></p> <p><b>SECTION 378</b></p> <p><b>SECTION 379</b></p> <p><b>SECTION 380</b></p> <p><b>SECTION 381</b></p> <p><b>SECTION 382</b></p> <p><b>SECTION 383</b></p> <p><b>SECTION 384</b></p> <p><b>SECTION 385</b></p> <p><b>SECTION 386</b></p> <p><b>SECTION 387</b></p> <p><b>SECTION 388</b></p> <p><b>SECTION 389</b></p> <p><b>SECTION 390</b></p> <p><b>SECTION 391</b></p> <p><b>SECTION 392</b></p> <p><b>SECTION 393</b></p> <p><b>SECTION 394</b></p> <p><b>SECTION 395</b></p> <p><b>SECTION 396</b></p> <p><b>SECTION 397</b></p> <p><b>SECTION 398</b></p> <p><b>SECTION 399</b></p> <p><b>SECTION 400</b></p> <p><b>SECTION 401</b></p> <p><b>SECTION 402</b></p> <p><b>SECTION 403</b></p> <p><b>SECTION 404</b></p> <p><b>SECTION 405</b></p> <p><b>SECTION 406</b></p> <p><b>SECTION 407</b></p> <p><b>SECTION 408</b></p> <p><b>SECTION 409</b></p> <p><b>SECTION 410</b></p> <p><b>SECTION 411</b></p> <p><b>SECTION 412</b></p> <p><b>SECTION 413</b></p> <p><b>SECTION 414</b></p> <p><b>SECTION 415</b></p> <p><b>SECTION 416</b></p> <p><b>SECTION 417</b></p> <p><b>SECTION 418</b></p> <p><b>SECTION 419</b></p> <p><b>SECTION 420</b></p> <p><b>SECTION 421</b></p> <p><b>SECTION 422</b></p> <p><b>SECTION 423</b></p> <p><b>SECTION 424</b></p> <p><b>SECTION 425</b></p> <p><b>SECTION 426</b></p> <p><b>SECTION 427</b></p> <p><b>SECTION 428</b></p> <p><b>SECTION 429</b></p> <p><b>SECTION 430</b></p> <p><b>SECTION 431</b></p> <p><b>SECTION 432</b></p> <p><b>SECTION 433</b></p> <p><b>SECTION 434</b></p> <p><b>SECTION 435</b></p> <p><b>SECTION 436</b></p> <p><b>SECTION 437</b></p> <p><b>SECTION 438</b></p> <p><b>SECTION 439</b></p> <p><b>SECTION 440</b></p> <p><b>SECTION 441</b></p> <p><b>SECTION 442</b></p> <p><b>SECTION 443</b></p> <p><b>SECTION 444</b></p> <p><b>SECTION 445</b></p> <p><b>SECTION 446</b></p> <p><b>SECTION 447</b></p> <p><b>SECTION 448</b></p> <p><b>SECTION 449</b></p> <p><b>SECTION 450</b></p> <p><b>SECTION 451</b></p> <p><b>SECTION 452</b></p> <p><b>SECTION 453</b></p> <p><b>SECTION 454</b></p> <p><b>SECTION 455</b></p> <p><b>SECTION 456</b></p> <p><b>SECTION 457</b></p> <p><b>SECTION 458</b></p> <p><b>SECTION 459</b></p> <p><b>SECTION 460</b></p> <p><b>SECTION 461</b></p> <p><b>SECTION 462</b></p> <p><b>SECTION 463</b></p> <p><b>SECTION 464</b></p> <p><b>SECTION 465</b></p> <p><b>SECTION 466</b></p> <p><b>SECTION 467</b></p> <p><b>SECTION 468</b></p> <p><b>SECTION 469</b></p> <p><b>SECTION 470</b></p> <p><b>SECTION 471</b></p> <p><b>SECTION 472</b></p> <p><b>SECTION 473</b></p> <p><b>SECTION 474</b></p> <p><b>SECTION 475</b></p> <p><b>SECTION 476</b></p> <p><b>SECTION 477</b></p> <p><b>SECTION 478</b></p> <p><b>SECTION 479</b></p> <p><b>SECTION 480</b></p> <p><b>SECTION 481</b></p> <p><b>SECTION 482</b></p> <p><b>SECTION 483</b></p> <p><b>SECTION 484</b></p> <p><b>SECTION 485</b></p> <p><b>SECTION 486</b></p> <p><b>SECTION 487</b></p> <p><b>SECTION 488</b></p> <p><b>SECTION 489</b></p> <p><b>SECTION 490</b></p> <p><b>SECTION 491</b></p> <p><b>SECTION 492</b></p> <p><b>SECTION 493</b></p> <p><b>SECTION 494</b></p> <p><b>SECTION 495</b></p> <p><b>SECTION 496</b></p> <p><b>SECTION 497</b></p> <p><b>SECTION 498</b></p> <p><b>SECTION 499</b></p> <p><b>SECTION 500</b></p> <p><b>SECTION 501</b></p> <p><b>SECTION 502</b></p> <p><b>SECTION 503</b></p> <p><b>SECTION 504</b></p> <p><b>SECTION 505</b></p> <p><b>SECTION 506</b></p> <p><b>SECTION 507</b></p> <p><b>SECTION 508</b></p> <p><b>SECTION 509</b></p> <p><b>SECTION 510</b></p> <p><b>SECTION 511</b></p> <p><b>SECTION 512</b></p> <p><b>SECTION 513</b></p> <p><b>SECTION 514</b></p> <p><b>SECTION 515</b></p> <p><b>SECTION 516</b></p> <p><b>SECTION 517</b></p> <p><b>SECTION 518</b></p> <p><b>SECTION 519</b></p> <p><b>SECTION 520</b></p> <p><b>SECTION 521</b></p> <p><b>SECTION 522</b></p> <p><b>SECTION 523</b></p> <p><b>SECTION 524</b></p> <p><b>SECTION 525</b></p> <p><b>SECTION 526</b></p> <p><b>SECTION 527</b></p> <p><b>SECTION 528</b></p> <p><b>SECTION 529</b></p> <p><b>SECTION 530</b></p> <p><b>SECTION 531</b></p> <p><b>SECTION 532</b></p> <p><b>SECTION 533</b></p> <p><b>SECTION 534</b></p> <p><b>SECTION 535</b></p> <p><b>SECTION 536</b></p> <p><b>SECTION 537</b></p> <p><b>SECTION 538</b></p> <p><b>SECTION 539</b></p> <p><b>SECTION 540</b></p> <p><b>SECTION 541</b></p> <p><b>SECTION 542</b></p> <p><b>SECTION 543</b></p> <p><b>SECTION 544</b></p> <p><b>SECTION 545</b></p> <p><b>SECTION 546</b></p> <p><b>SECTION 547</b></p> <p><b>SECTION 548</b></p> <p><b>SECTION 549</b></p> <p><b>SECTION 550</b></p> <p><b>SECTION 551</b></p> <p><b>SECTION 552</b></p> <p><b>SECTION 553</b></p> <p><b>SECTION 554</b></p> <p><b>SECTION 555</b></p> <p><b>SECTION 556</b></p> <p><b>SECTION 557</b></p> <p><b>SECTION 558</b></p> <p><b>SECTION 559</b></p> <p><b>SECTION 560</b></p> <p><b>SECTION 561</b></p> <p><b>SECTION 562</b></p> <p><b>SECTION 563</b></p> <p><b>SECTION 564</b></p> <p><b>SECTION 565</b></p> <p><b>SECTION 566</b></p> <p><b>SECTION 567</b></p> <p><b>SECTION 568</b></p> <p><b>SECTION 569</b></p> <p><b>SECTION 570</b></p> <p><b>SECTION 571</b></p> <p><b>SECTION 572</b></p> <p><b>SECTION 573</b></p> <p><b>SECTION 574</b></p> <p><b>SECTION 575</b></p> <p><b>SECTION 576</b></p> <p><b>SECTION 577</b></p> <p><b>SECTION 578</b></p> <p><b>SECTION 579</b></p> <p><b>SECTION 580</b></p> <p><b>SECTION 581</b></p> <p><b>SECTION 582</b></p> <p><b>SECTION 583</b></p> <p><b>SECTION 584</b></p> <p><b>SECTION 585</b></p> <p><b>SECTION 586</b></p> <p><b>SECTION 587</b></p> <p><b>SECTION 588</b></p> <p><b>SECTION 589</b></p> <p><b>SECTION 590</b></p> <p><b>SECTION 591</b></p> <p><b>SECTION 592</b></p> <p><b>SECTION 593</b></p> <p><b>SECTION 594</b></p> <p><b>SECTION 595</b></p> <p><b>SECTION 596</b></p> <p><b>SECTION 597</b></p> <p><b>SECTION 598</b></p> <p><b>SECTION 599</b></p> <p><b>SECTION 600</b></p> <p><b>SECTION 601</b></p> <p><b>SECTION 602</b></p> <p><b>SECTION 603</b></p> <p><b>SECTION 604</b></p> <p><b>SECTION 605</b></p> <p><b>SECTION 606</b></p> <p><b>SECTION 607</b></p> <p><b>SECTION 608</b></p> <p><b>SECTION 609</b></p> <p><b>SECTION 610</b></p> <p><b>SECTION 611</b></p> <p><b>SECTION 612</b></p> <p><b>SECTION 613</b></p> <p><b>SECTION 614</b></p> <p><b>SECTION 615</b></p> <p><b>SECTION 616</b></p> <p><b>SECTION 617</b></p> <p><b>SECTION 618</b></p> <p><b>SECTION 619</b></p> <p><b>SECTION 620</b></p> <p><b>SECTION 621</b></p> <p><b>SECTION 622</b></p> <p><b>SECTION 623</b></p> <p><b>SECTION 624</b></p> <p><b>SECTION 625</b></p> <p><b>SECTION 626</b></p> <p><b>SECTION 627</b></p> <p><b>SECTION 628</b></p> <p><b>SECTION 629</b></p> <p><b>SECTION 630</b></p> <p><b>SECTION 631</b></p> <p><b>SECTION 632</b></p> <p><b>SECTION 633</b></p> <p><b>SECTION 634</b></p> <p><b>SECTION 635</b></p> <p><b>SECTION 636</b></p> <p><b>SECTION 637</b></p> <p><b>SECTION 638</b></p> <p><b>SECTION 639</b></p> <p><b>SECTION 640</b></p> <p><b>SECTION 641</b></p> <p><b>SECTION 642</b></p> <p><b>SECTION 643</b></p> <p><b>SECTION 644</b></p> <p><b>SECTION 645</b></p> <p><b>SECTION 646</b></p> <p><b>SECTION 647</b></p> <p><b>SECTION 648</b></p> <p><b>SECTION 649</b></p> <p><b>SECTION 650</b></p> <p><b>SECTION 651</b></p> <p><b>SECTION 652</b></p> <p><b>SECTION 653</b></p> <p><b>SECTION 654</b></p> <p><b>SECTION 655</b></p> <p><b>SECTION 656</b></p> <p><b>SECTION 657</b></p> <p><b>SECTION 658</b></p> <p><b>SECTION 659</b></p> <p><b>SECTION 660</b></p> <p><b>SECTION 661</b></p> <p><b>SECTION 662</b></p> <p><b>SECTION 663</b></p> <p><b>SECTION 664</b></p> <p><b>SECTION 665</b></p> <p><b>SECTION 666</b></p> <p><b>SECTION 667</b></p> <p><b>SECTION 668</b></p> <p><b>SECTION 669</b></p> <p><b>SECTION 670</b></p> <p><b>SECTION 671</b></p> <p><b>SECTION 672</b></p> <p><b>SECTION 673</b></p> <p><b>SECTION 674</b></p> <p><b>SECTION 675</b></p> <p><b>SECTION 676</b></p> <p><b>SECTION 677</b></p> <p><b>SECTION 678</b></p> <p><b>SECTION 679</b></p> <p><b>SECTION 680</b></p> <p><b>SECTION 681</b></p> <p><b>SECTION 682</b></p> <p><b>SECTION 683</b></p> <p><b>SECTION 684</b></p> <p><b>SECTION 685</b></p> <p><b>SECTION 686</b></p> <p><b>SECTION 687</b></p> <p><b>SECTION 688</b></p> <p><b>SECTION 689</b></p> <p><b>SECTION 690</b></p> <p><b>SECTION 691</b></p> <p><b>SECTION 692</b></p> <p><b>SECTION 693</b></p> <p><b>SECTION 694</b></p> <p><b>SECTION 695</b></p> <p><b>SECTION 696</b></p> <p><b>SECTION 697</b></p> <p><b>SECTION 698</b></p> <p><b>SECTION 699</b></p> <p><b>SECTION 700</b></p> <p><b>SECTION 701</b></p> <p><b>SECTION 702</b></p> <p><b>SECTION 703</b></p> <p><b>SECTION 704</b></p> <p><b>SECTION 705</b></p> <p><b>SECTION 706</b></p> <p><b>SECTION 707</b></p> <p><b>SECTION 708</b></p> <p><b>SECTION 709</b></p> <p><b>SECTION 710</b></p> <p><b>SECTION 711</b></p> <p><b>SECTION 712</b></p> <p><b>SECTION 713</b></p> <p><b>SECTION 714</b></p> <p><b>SECTION 715</b></p> <p><b>SECTION 716</b></p> <p><b>SECTION 717</b></p> <p><b>SECTION 718</b></p> <p><b>SECTION 719</b></p> <p><b>SECTION 720</b></p> <p><b>SECTION 721</b></p> <p><b>SECTION 722</b></p> <p><b>SECTION 723</b></p> <p><b>SECTION 724</b></p> <p><b>SECTION 725</b></p> <p><b>SECTION 726</b></p> <p><b>SECTION 727</b></p> <p><b>SECTION 728</b></p> <p><b>SECTION 729</b></p> <p><b>SECTION 730</b></p> <p><b>SECTION 731</b></p> <p><b>SECTION 732</b></p> <p><b>SECTION 733</b></p> <p><b>SECTION 734</b></p> <p><b>SECTION 735</b></p> <p><b>SECTION 736</b></p> <p><b>SECTION 737</b></p> <p><b>SECTION 738</b></p> <p><b>SECTION 739</b></p> <p><b>SECTION 740</b></p> <p><b>SECTION 741</b></p> <p><b>SECTION 742</b></p> <p><b>SECTION 743</b></p> <p><b>SECTION 744</b></p> <p><b>SECTION 745</b></p> <p><b>SECTION 746</b></p> <p><b>SECTION 747</b></p> <p><b>SECTION 748</b></p> <p><b>SECTION 749</b></p> <p><b>SECTION 750</b></p> <p><b>SECTION </b></p>
--

# LOCATION VERIFICATION MAP

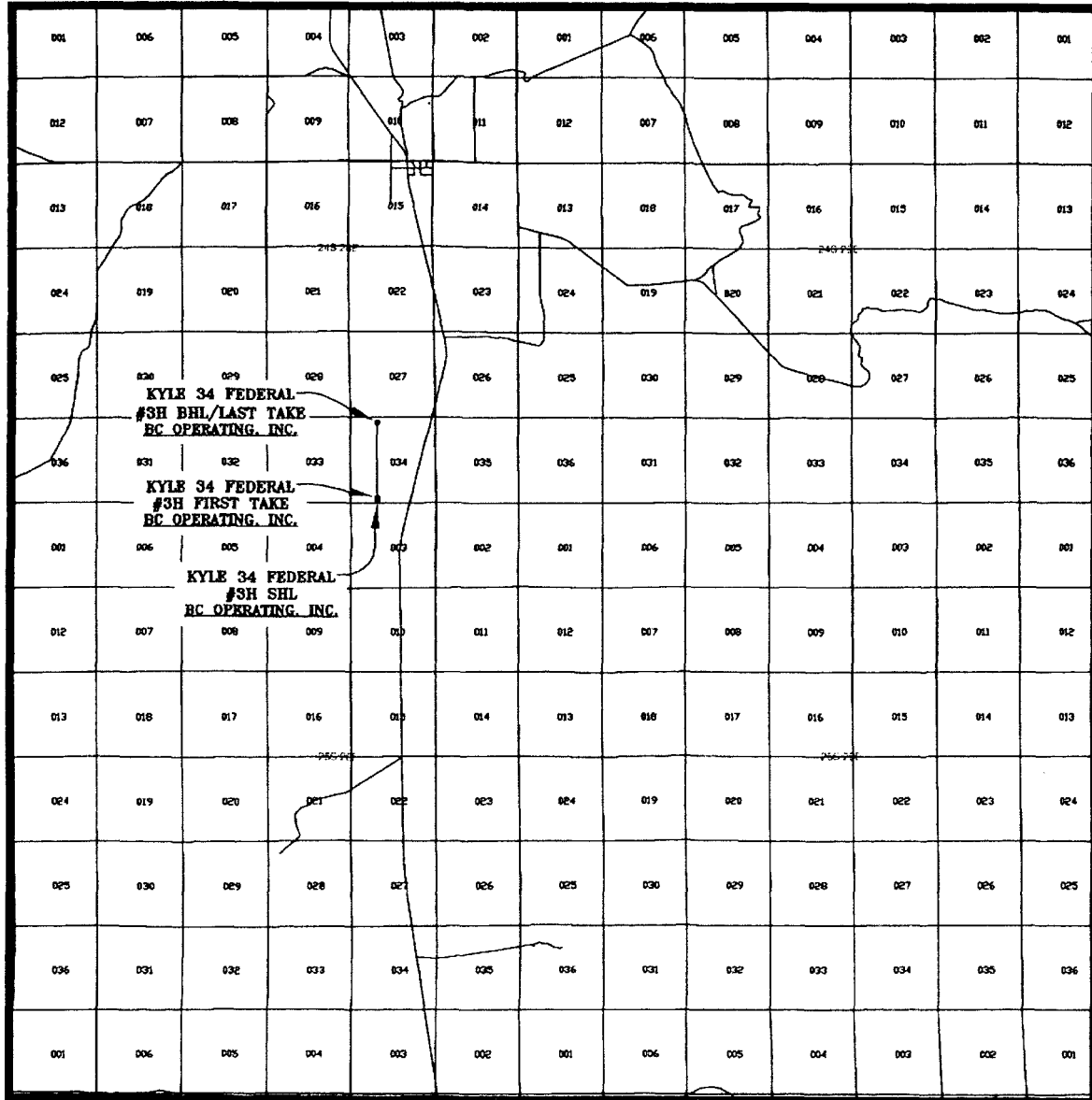


SEC. 34 TWP. 24-S RGE. 28-E  
SURVEY: N.M.P.M.  
COUNTY: EDDY  
DESCRIPTION: 200' FSL & 1670' FWL  
ELEVATION: 3000'  
OPERATOR: B.C. OPERATING, INC.  
LEASE: KYLE 34 FEDERAL  
U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.

SCALE: 1" = 2000'  
CONTOUR INTERVAL = 20'

PREPARED BY:  
R-SQUARED GLOBAL, LLC  
1309 LOUISVILLE AVENUE, MONROE, LA 71201  
318-323-6900 OFFICE  
JOB No. R3752\_001

# VICINITY MAP



SEC. 34 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

COUNTY: EDDY

DESCRIPTION: 200' FSL & 1670' FWL

ELEVATION: 3000'

OPERATOR: B.C. OPERATING, INC.

LEASE: KYLE 34 FEDERAL

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.

SCALE: 1" = 2 MILES

PREPARED BY:  
R-SQUARED GLOBAL, LLC  
1309 LOUISVILLE AVENUE, MONROE, LA 71201  
318-323-6800 OFFICE  
JOB No. R3752\_001

New plats resubmit

# WELL PAD SURFACE

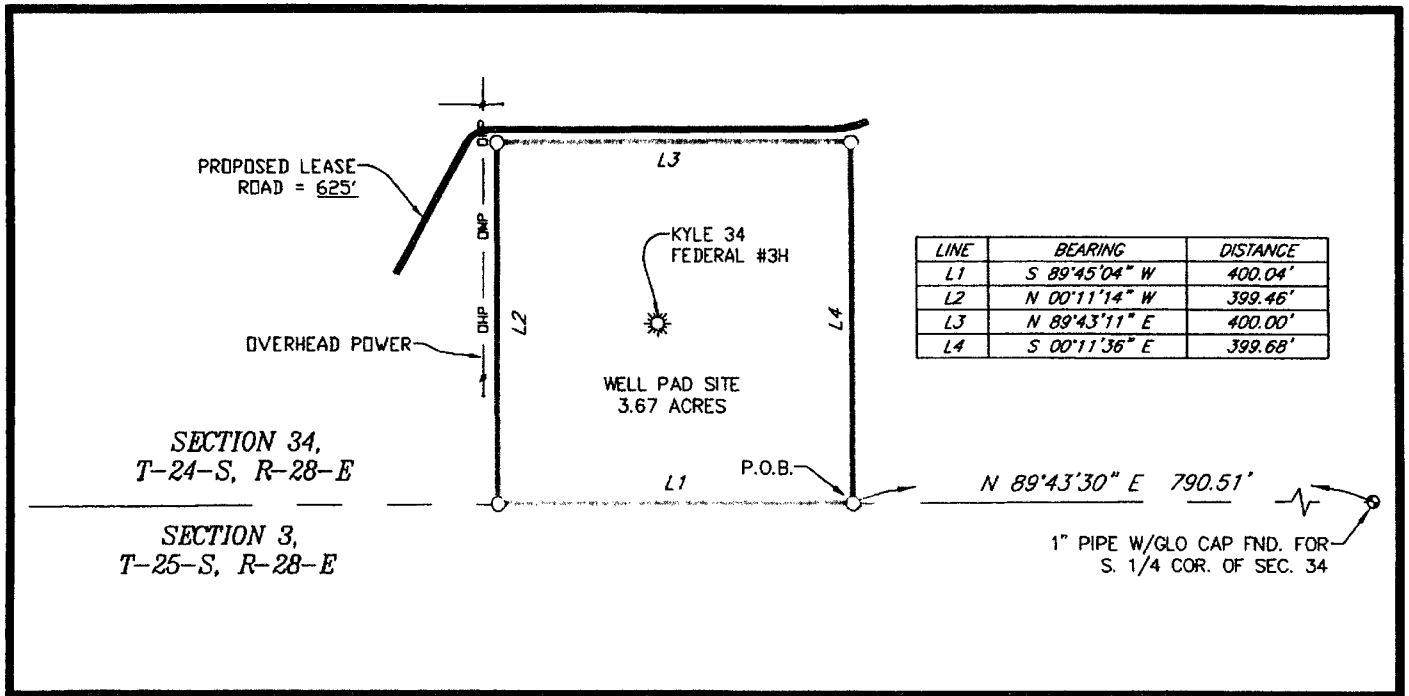
100' 0' 100' 200'  
SCALE: 1" = 200'

SEC. 34 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

COUNTY: EDDY

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.



## FIELD NOTES DESCRIBING

A tract of land being 3.67 acres. Said tract being located in Section 34, Township 24 South, Range 28 East, New Mexico Principal Meridian Eddy County, New Mexico.

Being more particularly described by metes and bounds as follows:

**BEGINNING** at a point from which a 1" pipe with a GLO cap found for the South quarter corner of said Section 34 bears, N 89°43'30" E a distance of 790.51 feet.

**THENCE**

S 89°45'04" W a distance of 400.04 feet to the Southwest corner of this tract, and  
N 00°11'14" W a distance of 399.46 feet to the Northwest corner of this tract, and  
N 89°43'11" E a distance of 400.00 feet to the Northeast corner of this tract, and  
S 00°11'36" E a distance of 399.68 feet to the **POINT OF BEGINNING**

The total area of the herein described tract contains 3.67 acres of land.

All bearings and coordinates refer to NAD 83, New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet. (All bearings and distances are grid measurements.)

Title information furnished by B.C. Operating, Inc.

Reference accompanying Certificate of Survey prepared in conjunction with this legal description for easement.

STATE OF NEW MEXICO  
COUNTY OF EDDY

I, Lloyd P. Short, New Mexico Professional Surveyor No. 21653, do hereby certify that this easement survey plat and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that I am responsible for this survey; that this survey meets the minimum standards for surveying in New Mexico; and that it is true and correct to the best of my knowledge and belief. I further certify that this survey is not a land division or subdivision as defined in the New Mexico Subdivision Act and that this instrument is an easement survey plat crossing an existing tract or tracts.



LLOYD P. SHORT, PS No. 21653 DATE: JULY 08, 2017

BC OPERATING, INC.

PLAT FOR A SURFACE SITE ON THE PROPERTY OF  
SCOTT AND VALERIE BRANSON  
EDDY COUNTY, NEW MEXICO

**BASIS OF BEARING**  
ALL BEARINGS AND COORDINATES  
REFER TO NAD 83, NEW MEXICO  
STATE PLANE COORDINATE  
SYSTEM, EAST ZONE, U.S. SURVEY  
FEET. (ALL BEARINGS AND  
DISTANCES ARE GRID  
MEASUREMENTS.)

**LEGEND** P.O.B. POINT OF BEGINNING

R3752\_001

EXISTING ROAD ———  
PROPOSED ROAD — x — x —  
SURFACE SITE EDGE ———  
EXIST. PIPELINE ———  
MONUMENT ———  
POWER POLE ———  
ARCH LIMITS ———  
FENCE ———  
SECTION LINE ———  
OVERHEAD POWER ———  
QUARTER SPLIT ———

REV.	DATE	DESCRIPTION	BY	CHKD
SHEET 4 OF 7				
DRAWN BY: DEF				
DATE: 06/20/2017				
CHECKED BY: LPS				

1309 LOUISVILLE AVE.  
MONROE, LA 71201  
(318) 323-6900  
FAX (318) 362-0064

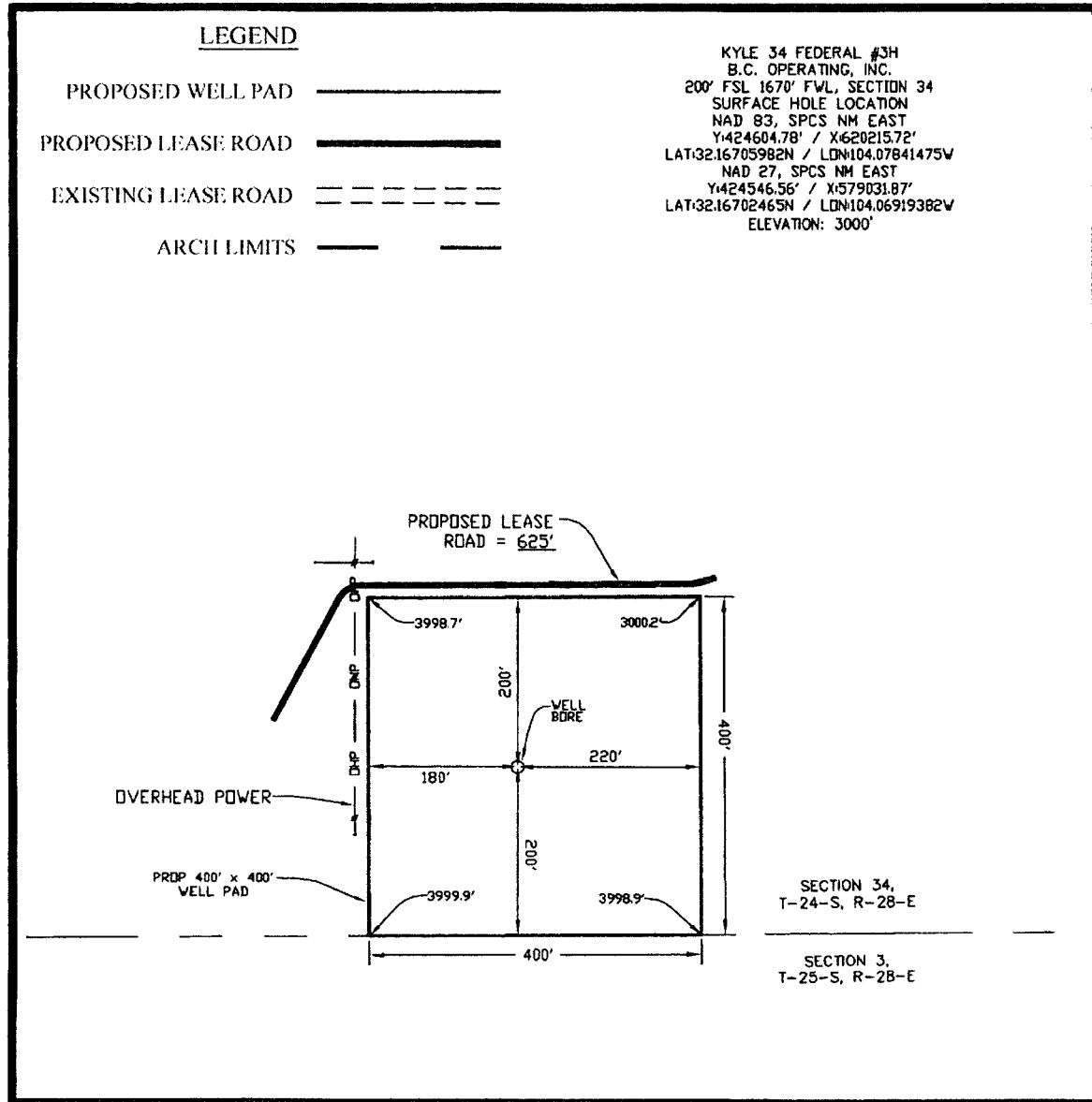
# WELL PAD TOPO

SEC. 34 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

COUNTY: EDDY

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.



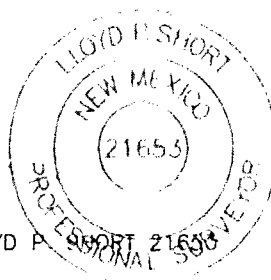
## DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF U.S. HIGHWAY 62/WEST GREENE STREET AND U.S. 180 W./U.S. 62 W./S. CANAL STREET IN CARLESBAD, NEW MEXICO, TRAVEL SOUTH ON U.S. 180 W./U.S. 62 W./S. CANAL STREET TOWARD W. TANSILL ST. FOR 2.0 MILES TO A SLIGHT-LEFT-TURN-ONTO-U.S. 285 S. FOR 18.8 MILES TO A LEASE ROAD ON THE RIGHT. TRAVEL WEST ON LEASE ROAD FOR 0.3 MILES TO A LEASE ROAD ON THE LEFT. TRAVEL SOUTH ON LEASE ROAD FOR 0.4 MILES TO PROPOSED WELL 150 FEET TO THE LEFT.

## NOTE:

THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY. BOUNDARY DATA SHOWN IS FROM STATE OF NEW MEXICO OIL CONSERVATION DIVISION FORM C-102 INCLUDED IN THIS SUBMITTAL.

JULY 08, 2017



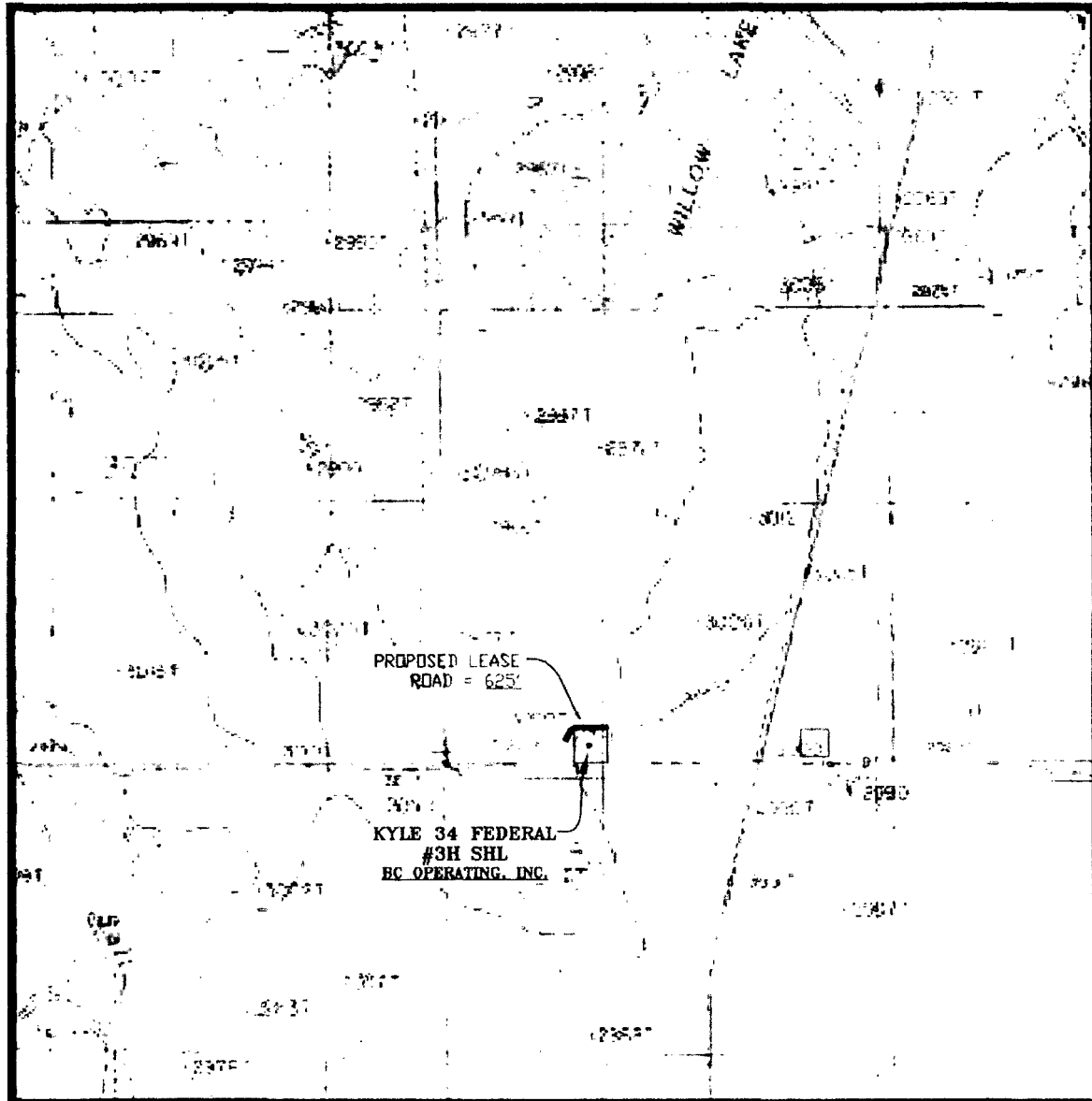
LLOYD P. SHORT 21653

100' 0' 100' 200'

SCALE: 1" = 200'

PREPARED BY:  
R-SQUARED GLOBAL, LLC  
1309 LOUISVILLE AVENUE, MONROE, LA 71201  
318-323-6900 OFFICE  
JOB No. R3762\_001

# WELL PAD LOCATION VERIFICATION MAP



SEC. 34 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

COUNTY: EDDY

DESCRIPTION: 200' FSL & 1670' FWL

ELEVATION: 3000'

OPERATOR: B.C. OPERATING, INC.

LEASE: KYLE 34 FEDERAL

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.

SCALE: 1" = 2000'  
CONTOUR INTERVAL = 20'

PREPARED BY:  
R-SQUARED GLOBAL, LLC  
1309 LOUISVILLE AVENUE, MONROE, LA 71201  
318-323-6900 OFFICE  
JOB No. R3752\_001

# EXISTING ACCESS ROAD VICINITY MAP

KYLE 34 FEDERAL #311

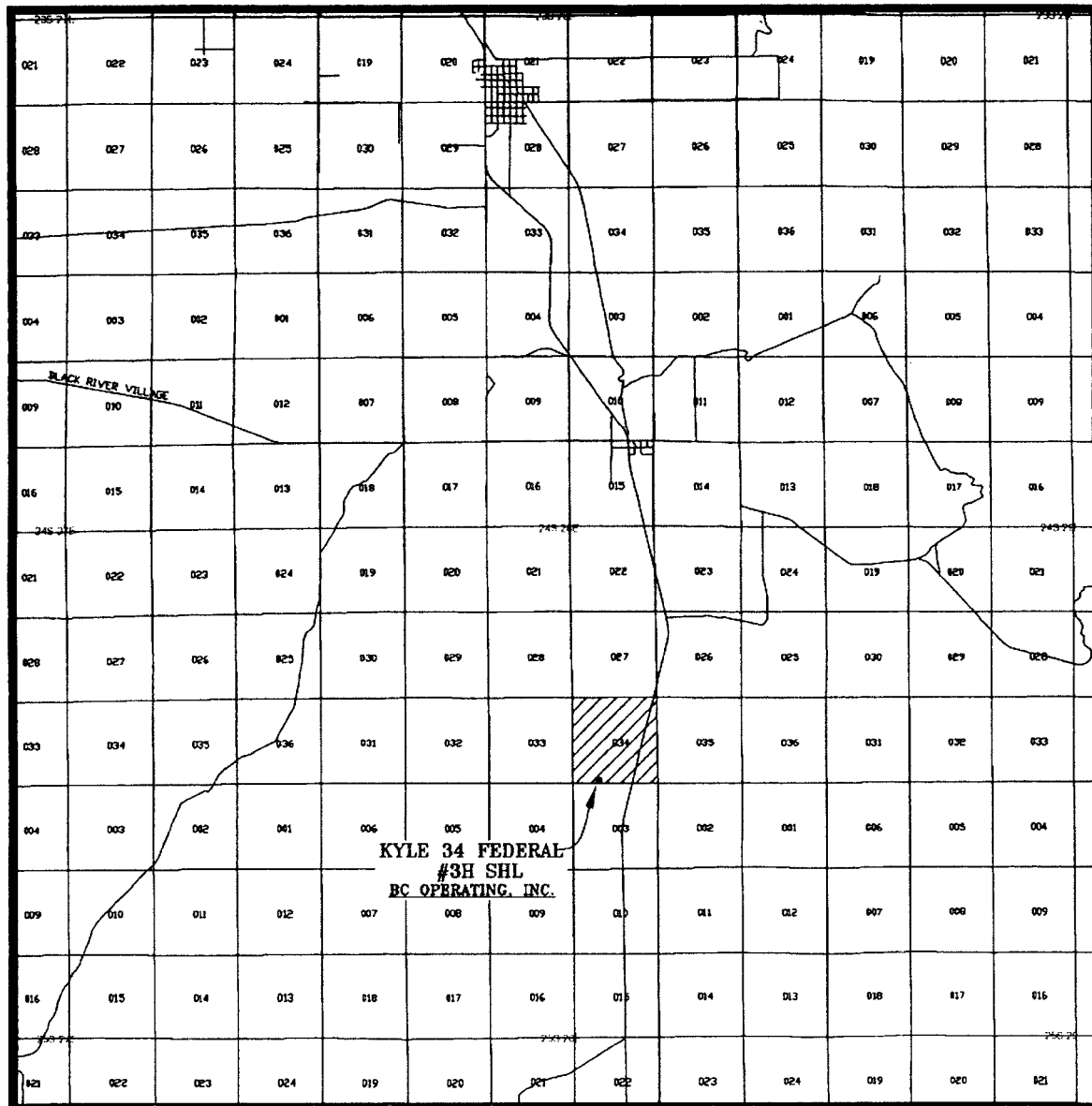
200' FSL & 1670' FWL

SEC. 34 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

COUNTY: EDDY

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.



SCALE: 1" = 2 MILES

PREPARED BY:  
R-SQUARED GLOBAL, LLC  
1309 LOUISVILLE AVENUE, MONROE, LA 71201  
318-323-6900 OFFICE  
JOB No. R3752\_001