

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-104 Revised July 9, 2024 Submit Electronically Via OCD Permitting
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REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**Section 1 - Operator and Well Information**

Submittal Type: ☐ Test Allowable (C-104RT) ☒ New Well (C-104NW) ☐ Recomplete (C-104RC) ☐ Pay Add (C-104RC) ☐ Amended	
Operator Name: SPUR ENERGY PARTNERS LLC	OGRID: 328947
Property Name and Well Number: WAUKEE 36 STATE COM 90H	Property Code: 331679
Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal	API Number: 30-0 15-55070
Pool Name: RED LAKE; GLORIETA-YESO, NORTHEAST	Pool Code: 96836

Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	31	17S	28E	4	755' FSL	670' FWL	32.7853701	-104.221339	EDDY

Section 3 – Completion Information

Producing Method PUMPING ON ESP	Ready Date 08/27/2024	Perforations MD 5316'-10405'	Perforations TVD 4745'-4508'
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Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW): 378417	Communitization Agreement ☒ Yes ☐ No, Order No.
Surface Casing Action ID: 372774	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID:	Compulsory Pooling: ☒ Yes ☐ No, Order No. R-21816
Intermediate 2 Casing Action ID:	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 372774	Surface Commingling: ☐ Yes ☒ No, Order No.
All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No	Non-standard Location: ☐ Yes ☒ No ☐ Common ownership Order No.
Liner 1 Action ID: 372603 TUBING	Non-standard Proration: ☐ Yes ☒ No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	Simultaneous Dedication: ☐ Yes ☒ No, Order No.

Section 5 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
Name SARAH CHAPMAN <i>Sarah Chapman</i>	
Title REGULATORY DIRECTOR	Date 12/02/2024

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal
			☐ Amended Report
			☒ As Drilled

WELL LOCATION INFORMATION

API Number 30-015-55070	Pool Code 96836	Pool Name RED LAKE; GLORIETA-YESO, NORTHEAST
Property Code 331679	Property Name WAUKEE 36 STATE COM	Well Number 90H ST01
OGRID No. 328947	Operator Name SPUR ENERGY PARTNERS LLC.	Ground Level Elevation 3666'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL M	Section 31	Township 17S	Range 28E	Lot 4	Ft. from N/S 755 FSL	Ft. from E/W 670 FWL	Latitude 32.7853701°N	Longitude 104.2213397°W	County EDDY
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Bottom Hole Location

UL M	Section 36	Township 17S	Range 27E	Lot	Ft. from N/S 1116 FSL	Ft. from E/W 56 FWL	Latitude 32.7864918°N	Longitude 104.2406261°W	County EDDY
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Dedicated Acres 320	Infill or Defining Well INFILL	Defining Well API 30-015-49020	Overlapping Spacing Unit (Y/N) N	Consolidation Code C AND F
Order Numbers. R-21816			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL M	Section 31	Township 17S	Range 28E	Lot 4	Ft. from N/S 712 FSL	Ft. from E/W 850 FWL	Latitude 32.7852613°N	Longitude 104.2207544°W	County EDDY
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First Take Point (FTP)

UL P	Section 36	Township 17S	Range 27E	Lot	Ft. from N/S 882 FSL	Ft. from E/W 127 FEL	Latitude 32.7856885°N	Longitude 104.2239335°W	County EDDY
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Last Take Point (LTP)

UL M	Section 36	Township 17S	Range 27E	Lot	Ft. from N/S 1116 FSL	Ft. from E/W 124 FWL	Latitude 32.7864899°N	Longitude 104.2404052°W	County EDDY
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Unitized Area or Area of Uniform Interest Y	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3666' GF
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> <i>Sarah Chapman</i> 11/29/2024 Signature Date SARAH CHAPMAN Printed Name SCHAPMAN@SPURENERGY.COM Email Address		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor Certificate Number 14400 Date of Survey 08/16/2024	
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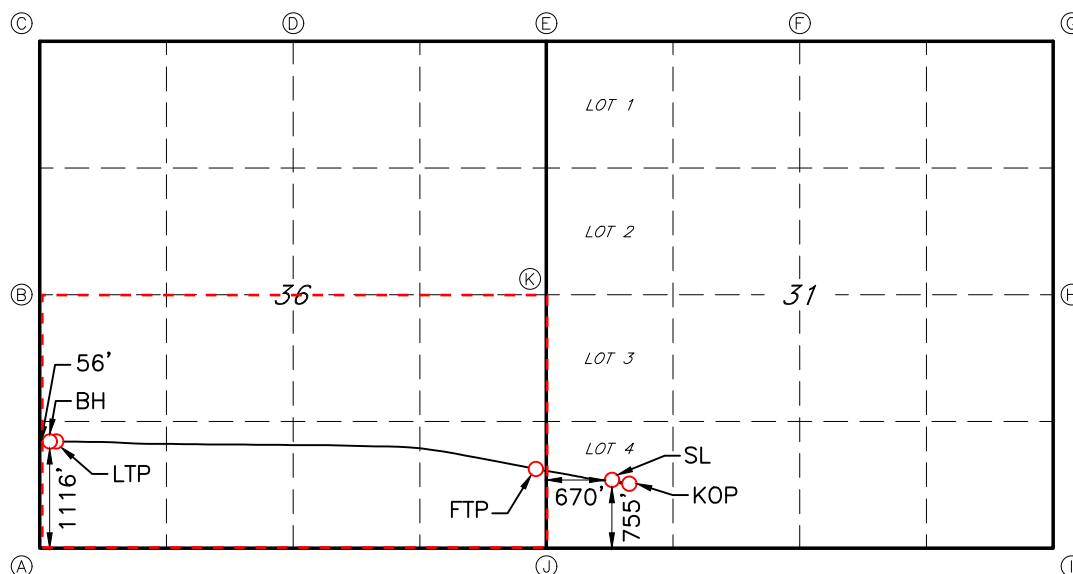
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

WAUKEE 36 STATE COM #90H ST01

GEODETIC DATA

NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)

N: 649468.1 - E: 575755.0
 LAT: 32.7853701° N
 LONG: 104.2213397° W

KICK OFF POINT (KOP)

712' FSL & 850' FWL SEC. 31
 N: 649428.7 - E: 575934.9
 LAT: 32.7852613° N
 LONG: 104.2207544° W
 MD=3749.0 - TVD=3743.9

FIRST TAKE POINT (FTP)

882' FSL & 127' FEL SEC. 36
 N: 649583.1 - E: 574957.8
 LAT: 32.7856885° N
 LONG: 104.2239335° W
 MD=5316.0 - TVD=4746.3

LAST TAKE POINT (LTP)

1116' FSL & 124' FWL SEC. 36
 N: 649869.8 - E: 569895.5
 LAT: 32.7864899° N
 LONG: 104.2404052° W
 MD=10405.0 - TVD=4507.9

BOTTOM HOLE (BH)

N: 649870.5 - E: 569827.6
 LAT: 32.7864918° N
 LONG: 104.2406261° W
 MD=10473.0 - TVD=4504.1

CORNER DATA

NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1941"
 N: 648755.1 - E: 569774.2

B: FOUND BRASS CAP "1941"
 N: 651389.1 - E: 569768.8

C: FOUND BRASS CAP "1941"
 N: 654022.0 - E: 569763.3

D: FOUND BRASS CAP "1941"
 N: 654002.1 - E: 572411.1

E: FOUND BRASS CAP "1941"
 N: 653983.5 - E: 575058.5

F: FOUND BRASS CAP "1941"
 N: 653999.6 - E: 577752.7

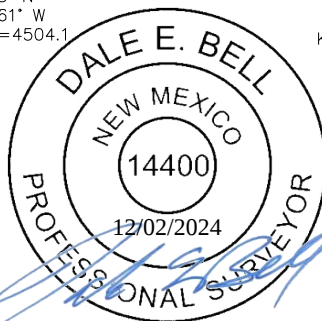
G: FOUND BRASS CAP "1941"
 N: 654017.3 - E: 580331.9

H: FOUND BRASS CAP "1941"
 N: 651411.9 - E: 580372.5

I: CALCULATED CORNER
 N: 648805.9 - E: 580413.8

J: FOUND BRASS CAP "1941"
 N: 648700.0 - E: 575089.7

K: FOUND BRASS CAP "1941"
 N: 651341.8 - E: 575074.4



JOB #: LS2404371AC



July 1st, 2024

State Of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S St Francis Dr.
Santa Fe NM 87505

RE: SPUR ENERGY PARTNERS LLC 328947
Well: WAUKEE 36 STATE COM 90H
POOLS:[96836] RED LAKE; GLORIETA-YESO, NORTHEAST
EDDY COUNTY, NM
API Number: 30-015-55070

Please find the attached surveys performed on the above referenced well by Prime Solution Services.

Other information required by your office is as follows:

Original Hole:

Surveyed Depths: 104' MD– 4439' MD projection to 4504' MD
Date Performed: 6/01/2024 – 06/6/2024
Type of Survey: Directional Survey – MWD/IFR

Sidetrack:

Surveyed Depths: 3874' MD– 10396' MD projection to 10473' MD
Date Performed: 06/19/2024 – 06/23/2024
Type of Survey: Directional Survey – MWD/IFR

A certified plat on which the bottom hole location is oriented both to the surface location and the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

A handwritten signature in black ink that reads 'Matt Simpson'.

Matt Simpson
MWD Operations Manager

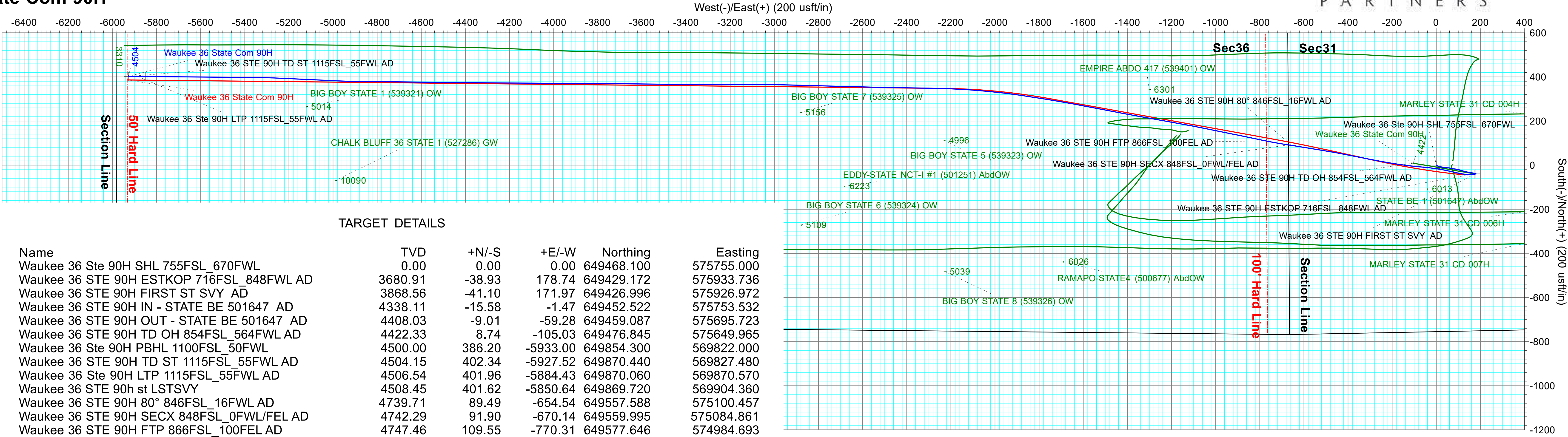
346-310-9626

msimpson@primesolutionsvcs.com

SPUR ENERGY PARTNERS LLC.

Project: Eddy County, NM (NAD83) NMEZ Grid
Site: Waukee 36
Well: Waukee 36 State Com 90H
Wellbore: ST
Design: ST

3666+20 @ 3686.00usft (Akita)
North American Datum 1983



TARGET DETAILS

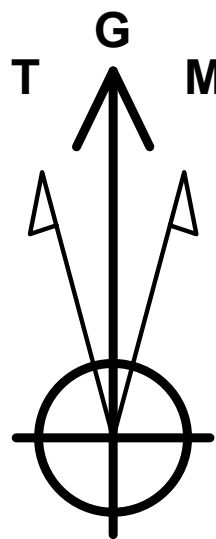
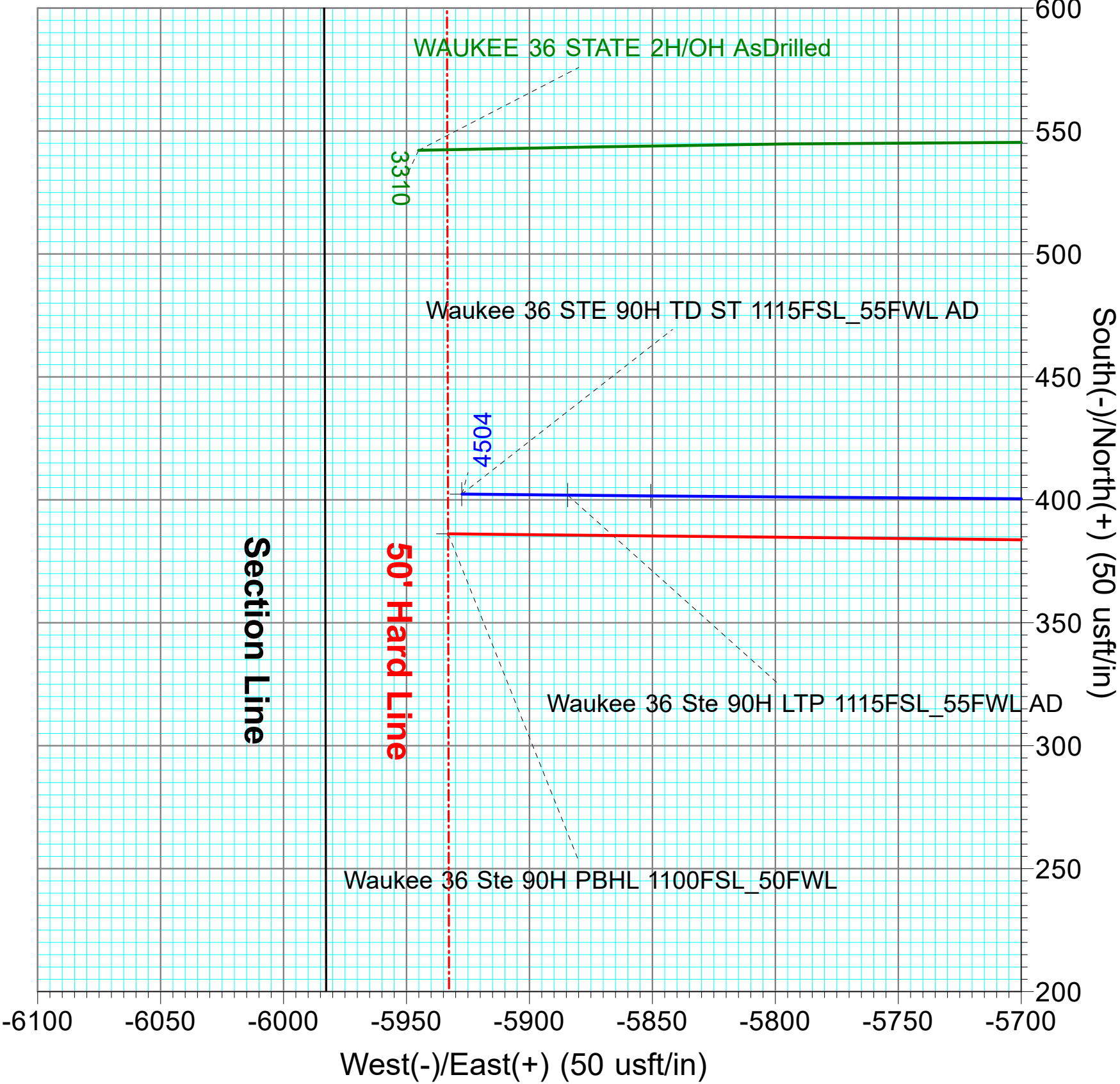
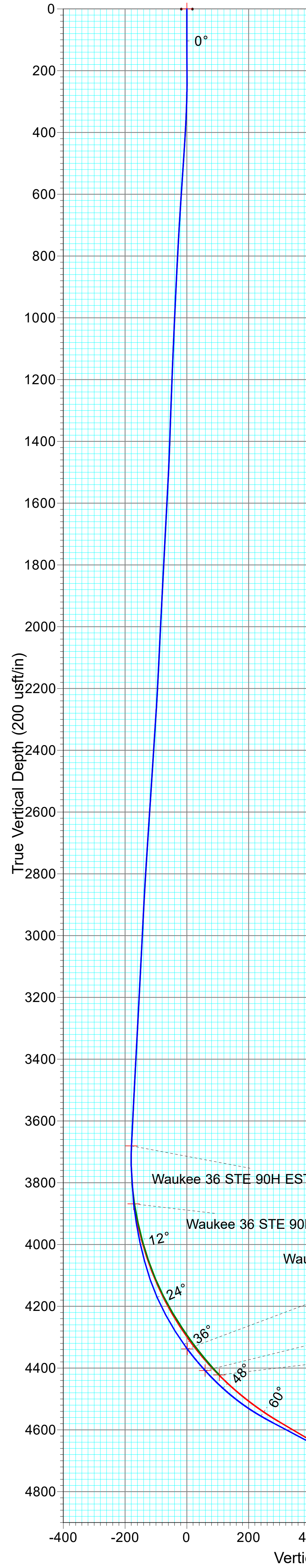
Name	TVD	+N/-S	+E/-W	Northing	Easting
Waukee 36 Ste 90H SHL 755FSL_670FWL	0.00	0.00	0.00	649468.100	575755.000
Waukee 36 STE 90H ESTKOP 716FSL_848FWL AD	3680.91	-38.93	178.74	649429.172	575933.736
Waukee 36 STE 90H FIRST ST SVY AD	3868.56	-41.10	171.97	649426.996	575926.972
Waukee 36 STE 90H IN - STATE BE 501647 AD	4338.11	-15.58	-1.47	649452.522	575753.532
Waukee 36 STE 90H OUT - STATE BE 501647 AD	4408.03	-9.01	-59.28	649459.087	575695.723
Waukee 36 STE 90H TD OH 854FSL_564FWL AD	4422.33	8.74	-105.03	649476.845	575649.965
Waukee 36 Ste 90H PBHL 1100FSL_50FWL	4500.00	386.20	-5933.00	649854.300	569822.000
Waukee 36 STE 90H TD ST 1115FSL_55FWL AD	4504.15	402.34	-5927.52	649870.440	569827.480
Waukee 36 Ste 90H LTP 1115FSL_55FWL AD	4506.54	401.96	-5884.43	649870.060	569870.570
Waukee 36 STE 90h st LSTSVY	4508.45	401.62	-5850.64	649869.720	569904.360
Waukee 36 STE 90H 80° 846FSL_16FWL AD	4739.71	89.49	-654.54	649557.588	575100.457
Waukee 36 STE 90H SECX 848FSL_0FWL/FEL AD	4742.29	91.90	-670.14	649559.995	575084.861
Waukee 36 STE 90H FTP 866FSL_100FEL AD	4747.46	109.55	-770.31	649577.646	574984.693

ANNOTATIONS - SIDETRACK

MD	Inc	Azi	TVD	+N/-S	+E/-W	Annotation
3686.00	2.79	102.76	3680.90	-38.90	178.89	ESTKOP 716FSL_848FWL
3874.00	6.60	258.85	3868.56	-41.10	171.97	FIRST ST SVY
4382.00	37.10	279.07	4338.11	-15.58	-1.47	IN - STATE BE 501647
4473.00	42.46	275.15	4408.03	-9.01	-59.28	OUT - STATE BE 501647
5170.51	80.00	278.88	4739.71	89.49	-654.54	80° 846FSL_16FWL
5186.50	81.45	278.67	4742.29	91.89	-670.14	SECX 848FSL_0FWL/FEL
5288.50	91.57	281.21	4747.46	109.55	-770.31	FTP 866FSL_100FEL
10430.00	93.20	270.54	4506.54	401.96	-5884.43	LTP 1115FSL_100FWL
10473.00	93.20	270.54	4504.14	402.37	-5927.36	TD ST 1115FSL_55FWL

ANNOTATIONS - OH

MD	Inc	Azi	TVD	+N/-S	+E/-W	Annotation
3686.00	2.79	102.76	3680.91	-38.93	178.74	ESTKOP 716FSL_848FWL
4504.00	43.93	279.30	4422.33	8.75	-105.03	TD OH 854FSL_564FWL



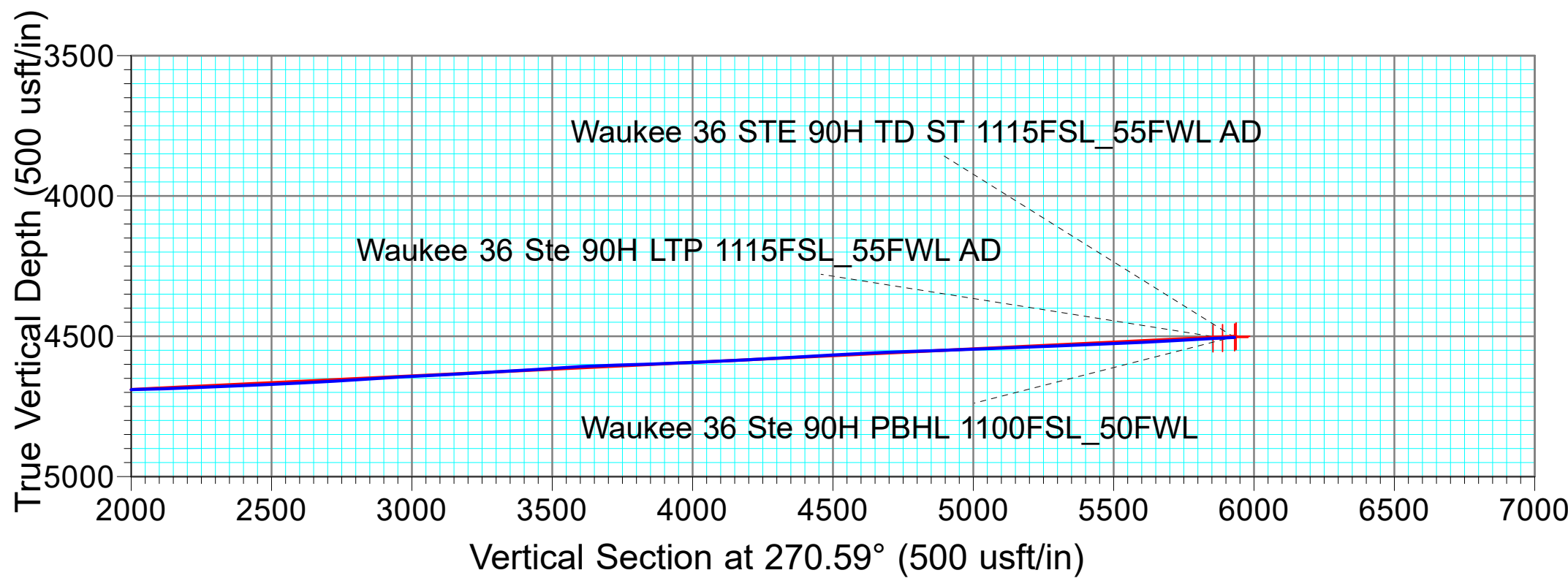
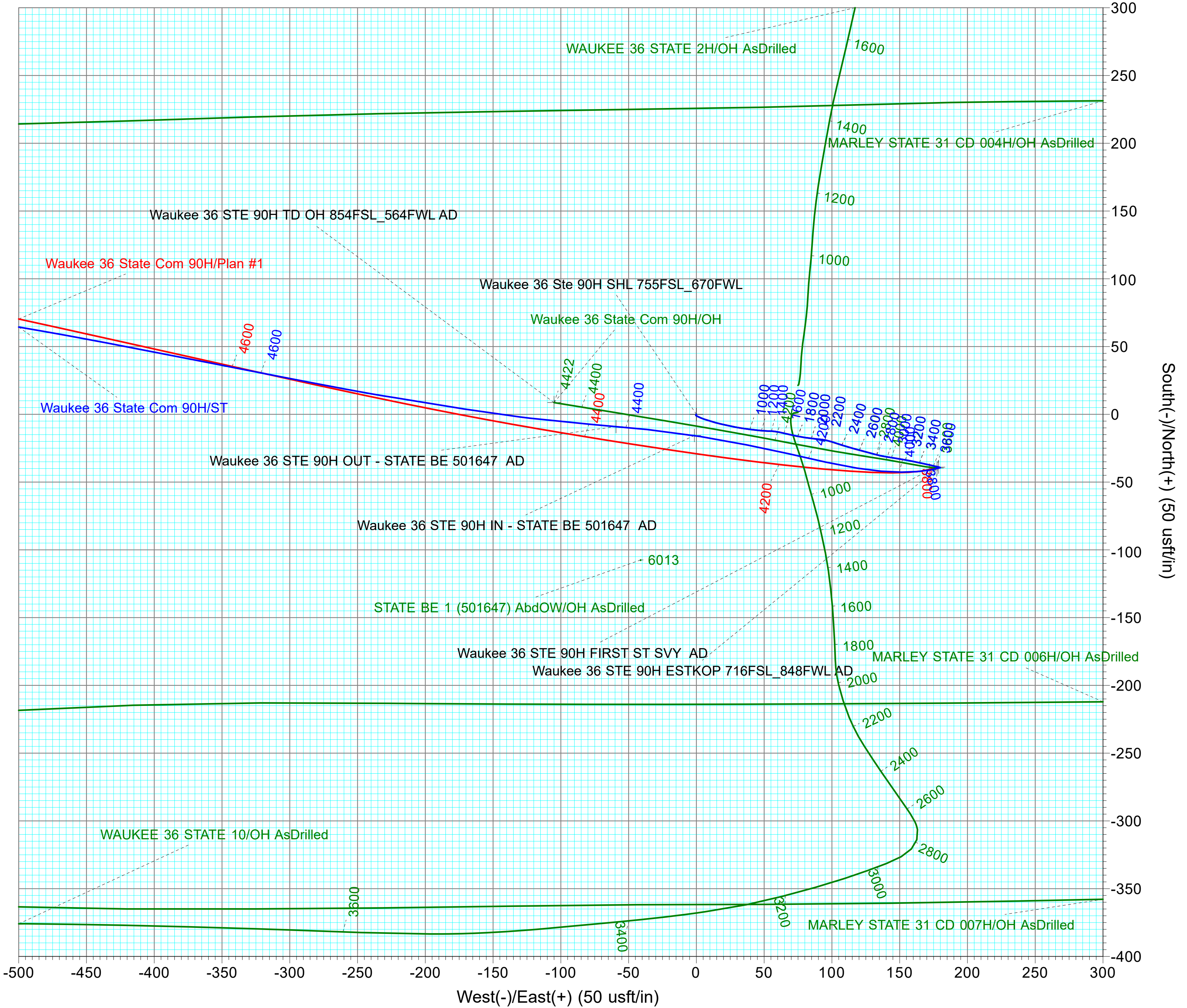
Azimuths to Grid North
True North: -0.06°
Magnetic North: 6.63°

Magnetic Field
Strength: 47333.0nT
Dip Angle: 60.24°
Date: 05/29/2024
Model: USER DEFINED

PROJECT DETAILS: Eddy County, NM (NAD83) NMEZ Grid
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 6.63°

Magnetic North is 6.63° East of Grid North (Magnetic Convergence)
Magnetic North is 6.69° East of True North (Magnetic Declination)



SPUR ENERGY PARTNERS LLC.
ddy County, NM (NAD83) NMEZ Grid
Waukee 36
Waukee 36 State Com 90H
ST
Created By: Mekka Williams
eSomnia Well Design
mekka@esominawell.com

SPUR ENERGY PARTNERS LLC.

Eddy County, NM (NAD83) NMEZ Grid

Waukee 36

Waukee 36 State Com 90H

OH

Design: OH

Standard Survey Report

27 June, 2024

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well Waukee 36 State Com 90H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3666+20 @ 3686.00usft (Akita)
Site:	Waukee 36	MD Reference:	3666+20 @ 3686.00usft (Akita)
Well:	Waukee 36 State Com 90H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PRIME_EDM

Project	Eddy County, NM (NAD83) NMEZ Grid		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Waukee 36				
Site Position:		Northing:	649,468.100 usft	Latitude:	32.7853701
From:	Map	Easting:	575,755.000 usft	Longitude:	-104.2213397
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.06 °

Well	Waukee 36 State Com 90H					
Well Position	+N/-S	0.00 usft	Northing:	649,468.100 usft	Latitude:	32.7853701
	+E/-W	0.00 usft	Easting:	575,755.000 usft	Longitude:	-104.2213397
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,666.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	05/29/24	6.55	60.22	47,448.79712968

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	270.59	

Survey Program	Date	06/27/24			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
104.00	1,290.00	Survey #1 Transcend (OH)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction	
1,407.00	4,439.00	Survey #2 Akita (OH)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction	
4,504.00	4,504.00	Survey #3 (OH)	Projection	Projection	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Waukee 36 Ste 90H SHL 755FSL_670FWL										
104.00	0.00	0.00	104.00	0.00	0.00	0.00	0.00	0.00	0.00	
135.00	0.35	227.59	135.00	-0.06	-0.07	0.07	1.13	1.13	0.00	
226.00	0.40	213.00	226.00	-0.52	-0.45	0.44	0.12	0.05	-16.03	
319.00	2.37	116.14	318.97	-1.64	1.10	-1.12	2.63	2.12	-104.15	
414.00	3.69	109.99	413.84	-3.55	5.74	-5.77	1.43	1.39	-6.47	
541.00	4.13	104.01	540.54	-6.05	14.02	-14.08	0.47	0.35	-4.71	

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well Waukee 36 State Com 90H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3666+20 @ 3686.00usft (Akita)
Site:	Waukee 36	MD Reference:	3666+20 @ 3686.00usft (Akita)
Well:	Waukee 36 State Com 90H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PRIME_EDM

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)
604.00	3.78	104.01	603.39	-7.10	18.23	-18.30	0.56	-0.56	0.00
698.00	3.52	101.38	697.20	-8.42	24.07	-24.15	0.33	-0.28	-2.80
793.00	3.08	101.38	792.04	-9.50	29.43	-29.52	0.46	-0.46	0.00
888.00	2.81	97.33	886.92	-10.30	34.24	-34.34	0.36	-0.28	-4.26
982.00	2.55	98.56	980.81	-10.91	38.59	-38.70	0.28	-0.28	1.31
1,109.00	2.55	96.45	1,107.69	-11.65	44.19	-44.31	0.07	0.00	-1.66
1,171.00	2.29	95.22	1,169.63	-11.91	46.80	-46.92	0.43	-0.42	-1.98
1,266.00	2.11	93.72	1,264.56	-12.20	50.43	-50.56	0.20	-0.19	-1.58
1,290.00	2.11	91.18	1,288.55	-12.24	51.32	-51.44	0.39	0.00	-10.58
1,407.00	1.87	92.63	1,405.48	-12.37	55.38	-55.50	0.21	-0.21	1.24
1,533.00	3.09	101.21	1,531.36	-13.12	60.76	-60.89	1.01	0.97	6.81
1,657.00	3.01	103.57	1,655.18	-14.54	67.20	-67.35	0.12	-0.06	1.90
1,783.00	3.06	102.21	1,781.00	-16.03	73.71	-73.87	0.07	0.04	-1.08
1,909.00	2.86	97.49	1,906.84	-17.15	80.11	-80.28	0.25	-0.16	-3.75
2,033.00	2.96	96.96	2,030.68	-17.94	86.36	-86.54	0.08	0.08	-0.43
2,160.00	2.68	95.40	2,157.52	-18.61	92.57	-92.75	0.23	-0.22	-1.23
2,285.00	3.96	107.94	2,282.31	-20.22	99.58	-99.79	1.17	1.02	10.03
2,410.00	3.83	107.74	2,407.02	-22.82	107.67	-107.89	0.10	-0.10	-0.16
2,536.00	3.89	105.38	2,532.74	-25.24	115.79	-116.05	0.13	0.05	-1.87
2,662.00	3.74	104.67	2,658.46	-27.41	123.89	-124.17	0.12	-0.12	-0.56
2,786.00	3.91	105.25	2,782.18	-29.55	131.88	-132.18	0.14	0.14	0.47
2,910.00	2.85	99.10	2,905.96	-31.15	139.01	-139.32	0.90	-0.85	-4.96
3,036.00	3.04	99.55	3,031.80	-32.20	145.39	-145.72	0.15	0.15	0.36
3,184.00	2.96	99.44	3,179.59	-33.47	153.03	-153.37	0.05	-0.05	-0.07
3,309.00	3.07	101.57	3,304.42	-34.67	159.50	-159.84	0.13	0.09	1.70
3,433.00	3.08	101.92	3,428.24	-36.03	166.01	-166.37	0.02	0.01	0.28
3,560.00	2.98	103.34	3,555.07	-37.50	172.56	-172.94	0.10	-0.08	1.12
3,686.00	2.79	102.76	3,680.91	-38.93	178.74	-179.13	0.15	-0.15	-0.46
3,699.72	2.02	105.64	3,694.61	-39.07	179.29	-179.69	5.66	-5.60	20.96
Waukee 36 Ste 90H KOP									
3,749.00	0.88	250.82	3,743.89	-39.43	179.77	-180.17	5.66	-2.32	294.60
3,811.00	4.78	271.42	3,805.80	-39.52	176.74	-177.14	6.40	6.29	33.23
3,875.00	9.16	279.29	3,869.31	-38.63	169.04	-169.43	6.99	6.84	12.30
3,938.00	12.65	280.84	3,931.16	-36.52	157.32	-157.68	5.56	5.54	2.46
4,000.00	15.49	279.70	3,991.30	-33.85	142.49	-142.83	4.60	4.58	-1.84
4,063.00	19.06	278.59	4,051.45	-30.89	124.02	-124.33	5.69	5.67	-1.76
4,125.00	22.99	279.92	4,109.31	-27.30	102.07	-102.35	6.38	6.34	2.15
4,188.00	27.16	280.80	4,166.36	-22.48	75.82	-76.04	6.65	6.62	1.40
4,251.00	31.12	280.77	4,221.37	-16.74	45.69	-45.86	6.29	6.29	-0.05
4,313.00	34.01	279.75	4,273.62	-10.81	12.85	-12.96	4.74	4.66	-1.65
4,375.00	37.15	279.51	4,324.04	-4.78	-22.71	22.66	5.07	5.06	-0.39
4,439.00	40.08	279.26	4,374.04	1.73	-62.11	62.13	4.58	4.58	-0.39
4,504.00	43.93	279.30	4,422.33	8.75	-105.03	105.12	5.92	5.92	0.06
Waukee 36 Ste 90H FTP 1100FSL_100FEL - Waukee 36 Ste 90H PBHL 1100FSL_50FWL - Waukee 36 Ste 90H LP - Waukee 36 Ste 90H LTP									

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well Waukee 36 State Com 90H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3666+20 @ 3686.00usft (Akita)
Site:	Waukee 36	MD Reference:	3666+20 @ 3686.00usft (Akita)
Well:	Waukee 36 State Com 90H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PRIME_EDM

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)

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Waukee 36 Ste 90H SHI	0.00	0.00	0.00	0.00	0.00	649,468.100	575,755.000	32.7853701	-104.2213397
- actual wellpath hits target center									
- Point									
Waukee 36 STE 90H ES	0.00	0.00	3,680.91	-38.93	178.74	649,429.172	575,933.736	32.7852626	-104.2207583
- actual wellpath hits target center									
- Point									
Waukee 36 STE 90H TC	0.00	0.00	4,422.33	8.75	-105.04	649,476.845	575,649.965	32.7853945	-104.2216815
- actual wellpath hits target center									
- Point									
Waukee 36 Ste 90H PBI	0.00	0.00	4,500.00	386.20	-5,933.00	649,854.300	569,822.000	32.7864474	-104.2406444
- actual wellpath misses target center by 5840.69usft at 4504.00usft MD (4422.33 TVD, 8.75 N, -105.03 E)									
- Point									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
3,686.00	3,680.91	-38.93	178.74	ESTKOP 716FSL_848FWL	
4,504.00	4,422.33	8.75	-105.03	TD OH 854FSL_564FWL	

Checked By: _____

Approved By: _____

Date: _____

SPUR ENERGY PARTNERS LLC.

Eddy County, NM (NAD83) NMEZ Grid

Waukee 36

Waukee 36 State Com 90H

ST

Design: ST

Standard Survey Report

01 July, 2024

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well Waukee 36 State Com 90H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3666+20 @ 3686.00usft (Akita)
Site:	Waukee 36	MD Reference:	3666+20 @ 3686.00usft (Akita)
Well:	Waukee 36 State Com 90H	North Reference:	Grid
Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
Design:	ST	Database:	PRIME_EDM

Project	Eddy County, NM (NAD83) NMEZ Grid		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Waukee 36				
Site Position:		Northing:	649,468.100 usft	Latitude:	32.7853701
From:	Map	Easting:	575,755.000 usft	Longitude:	-104.2213397
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.06 °

Well	Waukee 36 State Com 90H					
Well Position	+N/-S	0.00 usft	Northing:	649,468.100 usft	Latitude:	32.7853701
	+E/-W	0.00 usft	Easting:	575,755.000 usft	Longitude:	-104.2213397
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,666.00 usft

Wellbore	ST				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	05/29/24	6.69	60.24	47,333.00000000

Design	ST				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	14.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	270.59	

Survey Program	Date	07/01/24			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
104.00	1,365.00	Survey #1 Transcend (OH)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction	
1,407.00	3,749.00	Survey #2 Akita (OH)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction	
3,874.00	10,396.00	Survey #1 (ST)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction	
10,473.00	10,473.00	Survey #2 (ST)	Projection	Projection	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Waukee 36 Ste 90H SHL 755FSL_670FWL										
104.00	0.00	0.00	104.00	0.00	0.00	0.00	0.00	0.00	0.00	
135.00	0.35	227.59	135.00	-0.06	-0.07	0.07	1.13	1.13	0.00	
226.00	0.40	213.00	226.00	-0.52	-0.45	0.44	0.12	0.05	-16.03	
319.00	2.37	116.14	318.97	-1.64	1.10	-1.12	2.63	2.12	-104.15	
414.00	3.69	109.99	413.84	-3.55	5.74	-5.77	1.43	1.39	-6.47	

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well Waukee 36 State Com 90H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3666+20 @ 3686.00usft (Akita)
Site:	Waukee 36	MD Reference:	3666+20 @ 3686.00usft (Akita)
Well:	Waukee 36 State Com 90H	North Reference:	Grid
Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
Design:	ST	Database:	PRIME_EDM

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)
541.00	4.13	104.01	540.54	-6.05	14.02	-14.08	0.47	0.35	-4.71
604.00	3.78	104.01	603.39	-7.10	18.23	-18.30	0.56	-0.56	0.00
698.00	3.52	101.38	697.20	-8.42	24.07	-24.15	0.33	-0.28	-2.80
793.00	3.08	101.38	792.04	-9.50	29.43	-29.52	0.46	-0.46	0.00
888.00	2.81	97.33	886.92	-10.30	34.24	-34.34	0.36	-0.28	-4.26
982.00	2.55	98.56	980.81	-10.91	38.59	-38.70	0.28	-0.28	1.31
1,109.00	2.55	96.45	1,107.69	-11.65	44.19	-44.31	0.07	0.00	-1.66
1,171.00	2.29	95.22	1,169.63	-11.91	46.80	-46.92	0.43	-0.42	-1.98
1,266.00	2.11	93.72	1,264.56	-12.20	50.43	-50.56	0.20	-0.19	-1.58
1,290.00	2.11	91.18	1,288.55	-12.24	51.32	-51.44	0.39	0.00	-10.58
1,365.00	2.11	91.18	1,363.50	-12.29	54.08	-54.20	0.00	0.00	0.00
1,407.00	1.87	92.63	1,405.47	-12.34	55.53	-55.66	0.58	-0.57	3.45
1,533.00	3.09	101.21	1,531.35	-13.10	60.92	-61.05	1.01	0.97	6.81
1,657.00	3.01	103.57	1,655.18	-14.51	67.36	-67.51	0.12	-0.06	1.90
1,783.00	3.06	102.21	1,781.00	-16.00	73.87	-74.03	0.07	0.04	-1.08
1,909.00	2.86	97.49	1,906.83	-17.12	80.27	-80.44	0.25	-0.16	-3.75
2,033.00	2.96	96.96	2,030.67	-17.91	86.51	-86.69	0.08	0.08	-0.43
2,160.00	2.68	95.40	2,157.52	-18.59	92.72	-92.91	0.23	-0.22	-1.23
2,285.00	3.96	107.94	2,282.31	-20.19	99.74	-99.94	1.17	1.02	10.03
2,410.00	3.83	107.74	2,407.02	-22.79	107.82	-108.05	0.10	-0.10	-0.16
2,536.00	3.89	105.38	2,532.73	-25.21	115.95	-116.21	0.13	0.05	-1.87
2,662.00	3.74	104.67	2,658.45	-27.38	124.05	-124.32	0.12	-0.12	-0.56
2,786.00	3.91	105.25	2,782.18	-29.52	132.04	-132.34	0.14	0.14	0.47
2,910.00	2.85	99.10	2,905.96	-31.12	139.16	-139.48	0.90	-0.85	-4.96
3,036.00	3.04	99.55	3,031.79	-32.17	145.55	-145.87	0.15	0.15	0.36
3,184.00	2.96	99.44	3,179.59	-33.45	153.19	-153.53	0.05	-0.05	-0.07
3,309.00	3.07	101.57	3,304.42	-34.65	159.65	-160.00	0.13	0.09	1.70
3,433.00	3.08	101.92	3,428.24	-36.00	166.17	-166.53	0.02	0.01	0.28
3,560.00	2.98	103.34	3,555.06	-37.47	172.72	-173.09	0.10	-0.08	1.12
3,686.00	2.79	102.76	3,680.90	-38.90	178.89	-179.29	0.15	-0.15	-0.46
3,749.00	0.88	250.82	3,743.88	-39.40	179.93	-180.33	5.66	-3.03	235.02
3,874.00	6.60	258.85	3,868.56	-41.10	171.97	-172.39	4.58	4.58	6.42
3,938.00	9.48	265.60	3,931.93	-42.22	163.11	-163.53	4.73	4.50	10.55
4,000.00	12.33	269.88	3,992.80	-42.63	151.39	-151.82	4.78	4.60	6.90
4,063.00	15.14	274.74	4,054.00	-41.96	136.46	-136.89	4.82	4.46	7.71
4,125.00	19.04	279.08	4,113.25	-39.69	118.40	-118.80	6.61	6.29	7.00
4,188.00	24.05	282.51	4,171.83	-35.29	95.71	-96.06	8.20	7.95	5.44
4,251.00	29.01	282.95	4,228.18	-29.08	68.27	-68.56	7.88	7.87	0.70
4,313.00	32.44	281.05	4,281.47	-22.52	37.29	-37.52	5.75	5.53	-3.06
4,375.00	36.70	279.55	4,332.51	-16.26	2.68	-2.85	7.01	6.87	-2.42
4,438.00	40.39	275.53	4,381.79	-11.17	-36.22	36.10	7.08	5.86	-6.38
4,500.00	44.06	274.87	4,427.69	-7.40	-77.71	77.63	5.96	5.92	-1.06
4,562.00	48.51	276.65	4,470.53	-2.88	-122.28	122.24	7.47	7.18	2.87
4,625.00	53.42	279.15	4,510.20	3.88	-170.72	170.75	8.38	7.79	3.97

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well Waukee 36 State Com 90H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3666+20 @ 3686.00usft (Akita)
Site:	Waukee 36	MD Reference:	3666+20 @ 3686.00usft (Akita)
Well:	Waukee 36 State Com 90H	North Reference:	Grid
Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
Design:	ST	Database:	PRIME_EDM

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)
4,688.00	58.78	279.27	4,545.32	12.25	-222.32	222.44	8.51	8.51	0.19
4,750.00	62.55	280.96	4,575.69	21.76	-275.52	275.73	6.53	6.08	2.73
4,781.00	62.48	280.94	4,590.00	26.98	-302.52	302.78	0.23	-0.23	-0.06
4,813.00	62.51	281.02	4,604.78	32.39	-330.38	330.70	0.24	0.09	0.25
4,845.00	62.45	281.01	4,619.56	37.81	-358.24	358.61	0.19	-0.19	-0.03
4,876.00	62.48	281.02	4,633.90	43.06	-385.22	385.64	0.10	0.10	0.03
4,908.00	62.43	280.96	4,648.69	48.47	-413.07	413.55	0.23	-0.16	-0.19
4,939.00	62.47	280.88	4,663.03	53.68	-440.06	440.59	0.26	0.13	-0.26
5,001.00	66.09	279.58	4,689.93	63.58	-495.02	495.65	6.14	5.84	-2.10
5,064.00	71.14	278.96	4,712.90	73.03	-552.90	553.62	8.07	8.02	-0.98
Waukee 36 Ste 90H KOP ST									
5,127.00	76.05	279.47	4,730.69	82.70	-612.53	613.35	7.83	7.79	0.81
5,190.00	81.77	278.62	4,742.80	92.42	-673.56	674.48	9.18	9.08	-1.35
5,253.00	89.27	280.52	4,747.72	102.85	-735.45	736.47	12.28	11.90	3.02
5,296.91	92.12	281.38	4,747.18	111.19	-778.55	779.65	6.78	6.49	1.95
Waukee 36 Ste 90H LP ST									
5,316.00	93.36	281.75	4,746.27	115.01	-797.23	798.37	6.78	6.49	1.96
5,334.34	93.33	281.70	4,745.20	118.74	-815.16	816.34	0.30	-0.15	-0.26
Waukee 36 Ste 90H FTP 1100FSL_100FEL									
5,442.00	93.17	281.42	4,739.10	140.28	-920.46	921.86	0.30	-0.15	-0.26
5,568.00	93.45	281.55	4,731.82	165.32	-1,043.73	1,045.38	0.24	0.22	0.10
5,693.00	92.75	280.07	4,725.06	188.73	-1,166.33	1,168.21	1.31	-0.56	-1.18
5,817.00	93.48	280.30	4,718.32	210.63	-1,288.20	1,290.30	0.62	0.59	0.19
5,942.00	91.88	280.44	4,712.48	233.10	-1,411.02	1,413.34	1.28	-1.28	0.11
6,061.00	92.66	280.99	4,707.76	255.21	-1,527.85	1,530.40	0.80	0.66	0.46
6,180.00	92.75	280.54	4,702.15	277.41	-1,644.62	1,647.39	0.39	0.08	-0.38
6,299.00	91.93	279.22	4,697.29	297.81	-1,761.76	1,764.73	1.31	-0.69	-1.11
6,418.00	91.68	278.42	4,693.54	316.05	-1,879.29	1,882.45	0.70	-0.21	-0.67
6,538.00	91.43	276.07	4,690.28	331.17	-1,998.28	2,001.59	1.97	-0.21	-1.96
6,657.00	91.65	273.96	4,687.09	341.57	-2,116.78	2,120.18	1.78	0.18	-1.77
6,775.00	92.49	271.74	4,682.82	347.44	-2,234.54	2,238.00	2.01	0.71	-1.88
6,895.00	92.35	270.53	4,677.76	349.81	-2,354.41	2,357.89	1.01	-0.12	-1.01
7,013.00	92.61	271.32	4,672.65	351.71	-2,472.29	2,475.78	0.70	0.22	0.67
7,138.00	92.75	271.45	4,666.81	354.73	-2,597.11	2,600.63	0.15	0.11	0.10
7,263.00	93.36	271.45	4,660.14	357.89	-2,721.89	2,725.43	0.49	0.49	0.00
7,388.00	93.98	271.70	4,652.14	361.32	-2,846.59	2,850.16	0.53	0.50	0.20
7,514.00	93.17	271.23	4,644.29	364.53	-2,972.30	2,975.90	0.74	-0.64	-0.37
7,638.00	92.75	270.25	4,637.88	366.13	-3,096.12	3,099.73	0.86	-0.34	-0.79
7,763.00	92.92	269.70	4,631.70	366.08	-3,220.97	3,224.57	0.46	0.14	-0.44
7,890.00	93.59	270.29	4,624.49	366.07	-3,347.76	3,351.36	0.70	0.53	0.46
8,015.00	94.12	270.38	4,616.08	366.80	-3,472.48	3,476.07	0.43	0.42	0.07
8,141.00	93.05	270.78	4,608.21	368.07	-3,598.22	3,601.82	0.91	-0.85	0.32
8,265.00	91.74	270.51	4,603.02	369.46	-3,722.11	3,725.71	1.08	-1.06	-0.22

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well Waukee 36 State Com 90H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3666+20 @ 3686.00usft (Akita)
Site:	Waukee 36	MD Reference:	3666+20 @ 3686.00usft (Akita)
Well:	Waukee 36 State Com 90H	North Reference:	Grid
Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
Design:	ST	Database:	PRIME_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,391.00	91.91	269.97	4,599.01	369.99	-3,848.04	3,851.65	0.45	0.13	-0.43	
8,517.00	92.35	270.74	4,594.33	370.77	-3,973.95	3,977.56	0.70	0.35	0.61	
8,643.00	92.58	270.30	4,588.91	371.91	-4,099.83	4,103.44	0.39	0.18	-0.35	
8,767.00	93.08	270.34	4,582.79	372.61	-4,223.67	4,227.29	0.40	0.40	0.03	
8,892.00	93.67	270.42	4,575.43	373.43	-4,348.45	4,352.07	0.48	0.47	0.06	
9,017.00	92.75	270.72	4,568.43	374.68	-4,473.25	4,476.87	0.77	-0.74	0.24	
9,142.00	93.34	270.80	4,561.79	376.33	-4,598.06	4,601.69	0.48	0.47	0.06	
9,266.00	91.85	270.58	4,556.18	377.82	-4,721.92	4,725.56	1.21	-1.20	-0.18	
9,391.00	92.27	270.23	4,551.68	378.71	-4,846.84	4,850.48	0.44	0.34	-0.28	
9,517.00	91.85	272.61	4,547.15	381.83	-4,972.71	4,976.38	1.92	-0.33	1.89	
9,644.00	92.27	272.63	4,542.59	387.63	-5,099.49	5,103.21	0.33	0.33	0.02	
9,769.00	92.63	272.79	4,537.24	393.53	-5,224.24	5,228.01	0.32	0.29	0.13	
9,895.00	92.10	270.54	4,532.04	397.19	-5,350.07	5,353.88	1.83	-0.42	-1.79	
10,020.00	92.35	270.62	4,527.19	398.45	-5,474.97	5,478.78	0.21	0.20	0.06	
10,145.00	92.86	270.55	4,521.51	399.73	-5,599.83	5,603.65	0.41	0.41	-0.06	
10,271.00	92.94	270.33	4,515.13	400.70	-5,725.67	5,729.49	0.19	0.06	-0.17	
10,396.00	93.20	270.54	4,508.44	401.64	-5,850.48	5,854.31	0.27	0.21	0.17	
Waukee 36 Ste 90H LTP 1100FSL_100FWL										
10,473.00	93.20	270.54	4,504.14	402.37	-5,927.36	5,931.19	0.00	0.00	0.00	
Waukee 36 Ste 90H PBHL 1100FSL_50FWL										

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well Waukee 36 State Com 90H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3666+20 @ 3686.00usft (Akita)
Site:	Waukee 36	MD Reference:	3666+20 @ 3686.00usft (Akita)
Well:	Waukee 36 State Com 90H	North Reference:	Grid
Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
Design:	ST	Database:	PRIME_EDM

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Waukee 36 Ste 90H SHI - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	649,468.100	575,755.000	32.7853701	-104.2213397
Waukee 36 STE 90H ES - actual wellpath misses target center by 0.16usft at 3686.01usft MD (3680.91 TVD, -38.90 N, 178.89 E) - Point	0.00	0.00	3,680.91	-38.93	178.74	649,429.172	575,933.736	32.7852626	-104.2207583
Waukee 36 STE 90H FIF - actual wellpath hits target center - Point	0.00	0.00	3,868.56	-41.10	171.97	649,426.996	575,926.972	32.7852567	-104.2207803
Waukee 36 STE 90H IN - actual wellpath hits target center - Point	0.00	0.00	4,338.11	-15.58	-1.47	649,452.522	575,753.532	32.7853273	-104.2213446
Waukee 36 STE 90H OL - actual wellpath hits target center - Point	0.00	0.00	4,408.03	-9.01	-59.28	649,459.087	575,695.723	32.7853455	-104.2215327
Waukee 36 STE 90H TC - actual wellpath misses target center by 27.74usft at 4517.13usft MD (4439.87 TVD, -6.32 N, -89.70 E) - Point	0.00	0.00	4,422.33	8.75	-105.04	649,476.845	575,649.965	32.7853945	-104.2216815
Waukee 36 Ste 90H PBI - actual wellpath misses target center by 17.62usft at 10473.00usft MD (4504.14 TVD, 402.37 N, -5927.36 E) - Point	0.00	0.00	4,500.00	386.20	-5,933.00	649,854.300	569,822.000	32.7864474	-104.2406444
Waukee 36 STE 90H TC - actual wellpath misses target center by 0.16usft at 10473.00usft MD (4504.14 TVD, 402.37 N, -5927.36 E) - Point	0.00	0.00	4,504.15	402.34	-5,927.52	649,870.440	569,827.480	32.7864918	-104.2406266
Waukee 36 Ste 90H LTF - actual wellpath misses target center by 34.00usft at 10396.00usft MD (4508.44 TVD, 401.64 N, -5850.48 E) - Point	0.00	0.00	4,506.54	401.96	-5,884.43	649,870.060	569,870.570	32.7864906	-104.2404863
Waukee 36 STE 90h st I - actual wellpath misses target center by 0.16usft at 10396.00usft MD (4508.44 TVD, 401.64 N, -5850.48 E) - Point	0.00	0.00	4,508.45	401.62	-5,850.64	649,869.720	569,904.360	32.7864896	-104.2403764
Waukee 36 STE 90H 80 - actual wellpath hits target center - Point	0.00	0.00	4,739.71	89.49	-654.54	649,557.588	575,100.457	32.7856180	-104.2234693
Waukee 36 STE 90H SE - actual wellpath hits target center - Point	0.00	0.00	4,742.29	91.90	-670.14	649,559.995	575,084.861	32.7856247	-104.2235200
Waukee 36 STE 90H FT - actual wellpath hits target center - Point	0.00	0.00	4,747.46	109.55	-770.31	649,577.646	574,984.693	32.7856735	-104.2238459

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well Waukee 36 State Com 90H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3666+20 @ 3686.00usft (Akita)
Site:	Waukee 36	MD Reference:	3666+20 @ 3686.00usft (Akita)
Well:	Waukee 36 State Com 90H	North Reference:	Grid
Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
Design:	ST	Database:	PRIME_EDM

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
3,686.00	3,680.90	-38.90	178.89	ESTKOP 716FSL_848FWL	
3,874.00	3,868.56	-41.10	171.97	FIRST ST SVY	
4,382.00	4,338.11	-15.58	-1.47	IN - STATE BE 501647	
4,473.00	4,408.03	-9.01	-59.28	OUT - STATE BE 501647	
5,170.51	4,739.71	89.49	-654.54	80° 846FSL_16FWL	
5,186.50	4,742.29	91.89	-670.14	SECX 848FSL_0FWL/FEL	
5,288.50	4,747.46	109.55	-770.31	FTP 866FSL_100FEL	
10,430.00	4,506.54	401.96	-5,884.43	LTP 1115FSL_100FWL	
10,473.00	4,504.14	402.37	-5,927.36	TD ST 1115FSL_55FWL	

Checked By:	_____	Approved By:	_____	Date:	_____
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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name			
4 Property Code		5 Property Name WAUKEE 36 STATE COM				6 Well Number 90H	
7 OGRID NO.		8 Operator Name SPUR ENERGY PARTNERS LLC.				9 Elevation 3666'	

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
4	31	17S	28E		755	SOUTH	670	WEST	EDDY

11 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
M	36	17S	27E		1100	SOUTH	50	WEST	EDDY
12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.						

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16 <u>GEODETIC DATA</u> NAD 83 GRID - NM EAST <u>SURFACE LOCATION (SL)</u> N: 649468.1 - E: 575755.0 LAT: 32.7853701° N LONG: 104.2213397° W <u>FIRST TAKE POINT (FTP)</u> 1100' FSL & 100' FEL SEC. 36 N: 649800.7 - E: 574983.4 LAT: 32.7862867° N LONG: 104.2238494° W <u>LAST TAKE POINT (LTP)</u> 1100' FSL & 100' FWL SEC. 36 N: 649853.8 - E: 569871.9 LAT: 32.7864460° N LONG: 104.2404819° W <u>BOTTOM HOLE (BH)</u> N: 649854.3 - E: 569822.0 LAT: 32.7861471° N LONG: 104.2396171° W <u>CORNER DATA</u> NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1941" N: 648755.1 - E: 569774.2 B: FOUND BRASS CAP "1941" N: 651389.1 - E: 569768.8 C: FOUND BRASS CAP "1941" N: 654022.0 - E: 569763.3 D: FOUND BRASS CAP "1941" N: 654002.1 - E: 572411.1 E: FOUND BRASS CAP "1941" N: 653983.5 - E: 575058.5 F: FOUND BRASS CAP "1941" N: 653999.6 - E: 577752.7 G: FOUND BRASS CAP "1941" N: 654017.3 - E: 580331.9 H: FOUND BRASS CAP "1941" N: 651411.9 - E: 580372.5 I: CALCULATED CORNER N: 648805.9 - E: 580413.8 J: FOUND BRASS CAP "1941" N: 648700.0 - E: 575089.7 K: FOUND BRASS CAP "1941" N: 651341.8 - E: 575074.4	17 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 _____ Address _____
OH BHL: Prime Solution Services MWD Original hole: Final Station 4439MD Displacement = 62.13' at a 271.60° azm API # 30-015-55070 ST BHL: Prime Solution Services MWD Original hole: Final Station 10396 MD Displacement = 5864.41' at a 273.93° azm API # 30-015-55070	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. 4/30/2024 of Survey Signature and Seal of Professional Surveyor DALE E. BELL NEW MEXICO 14400 05/07/2024 PROFESSIONAL SURVEYOR 14400 Certificate Number Job No.: LS24040371

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Section 1 - Operator and Well Information

Submittal Type: ☒ New Well ☐ Workover ☐ Deepening ☐ Plugback ☐ Different Reservoir ☐ C-144 Closure Attachment ☐ Other	
Operator Name: SPUR ENERGY PARTNERS LLC	OGRID: 328947
Property Name and Well Number: WAUKEE 36 STATE COM 90H	Property Code: 331679
Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal	API Number: 30-0 15-55070
Pool Name: REF LAKE; GLORIETA-YESO, NORTHEAST	Pool Code: 96836

Section 2 – Well Location

	Ul or lot no.	Section	Township	Range	Lot Id	Feet from	N/S Line	Feet from	E/W Line	County
SHL:	M	31	17S	28E	4	755	SOUTH	670	WEST	EDDY
BHL	M	36	17S	28E		1116	SOUTH	56	WEST	EDDY

Section 3 – Completion Information

Date T.D. Reached 06/23/2024	Total Measured Depth of Well 10473'MD/4504'V	Acid Volume (bbls) 831	☒ Directional Survey Submitted ☐ Deviation Survey Submitted
Date Rig Released 06/24/2024	Plug-Back Measured Depth 10431'M/4504'V	Completion Fluid Used (bbls) 286,297	Were Logs Ran (Y/N) Y
Completion Date 08/13/2024	Perforations (MD and TVD) 5316M'-10405'M/4746V'-4508'V	Completion Proppant Used (lbs) 5,011,520	List Type of Logs Ran if applicable: GAMMA

Section 4 – Action IDs for Submissions and Order Numbers

Surface Casing Action ID: 372774	UIC Permit/Order (UIC wells only) ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID:	NOI Recomplete Action ID (if applicable):
Intermediate 2 Casing Action ID:	NOI Plugback Action ID (if applicable):
Production Casing Action ID: 372774	Cement Squeeze Action ID (if applicable):
Tubing Action ID: 372603	All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No
Liner 1 Action ID:	Casing was installed prior to Action ID system (Y/N): N

Section 5 – Test Data

Date First Production 09/08/2024	Production Method PUMPING ON ESP	Well Status PRODUCING	Gas – Oil Ratio
Date of Test 11/15/2024	Choke Size N/A	Flowing Tubing Pressure 157	Casing Pressure 127
24 hr Oil (bbls) 1053	24 hr Gas (MCF) 1311	24 hr Water (bbls) 3377	Oil Gravity - API
Disposition of Gas: SOLD			

Section 6 – Pits

☐ A temporary pit was used at the well. If so, attach a plat with the location of the temporary pit.
☒ A Closed Loop System was used.
☐ If an on-site burial was used at the well, report the exact location of the on-site burial:
LAT: _____ LONG: _____

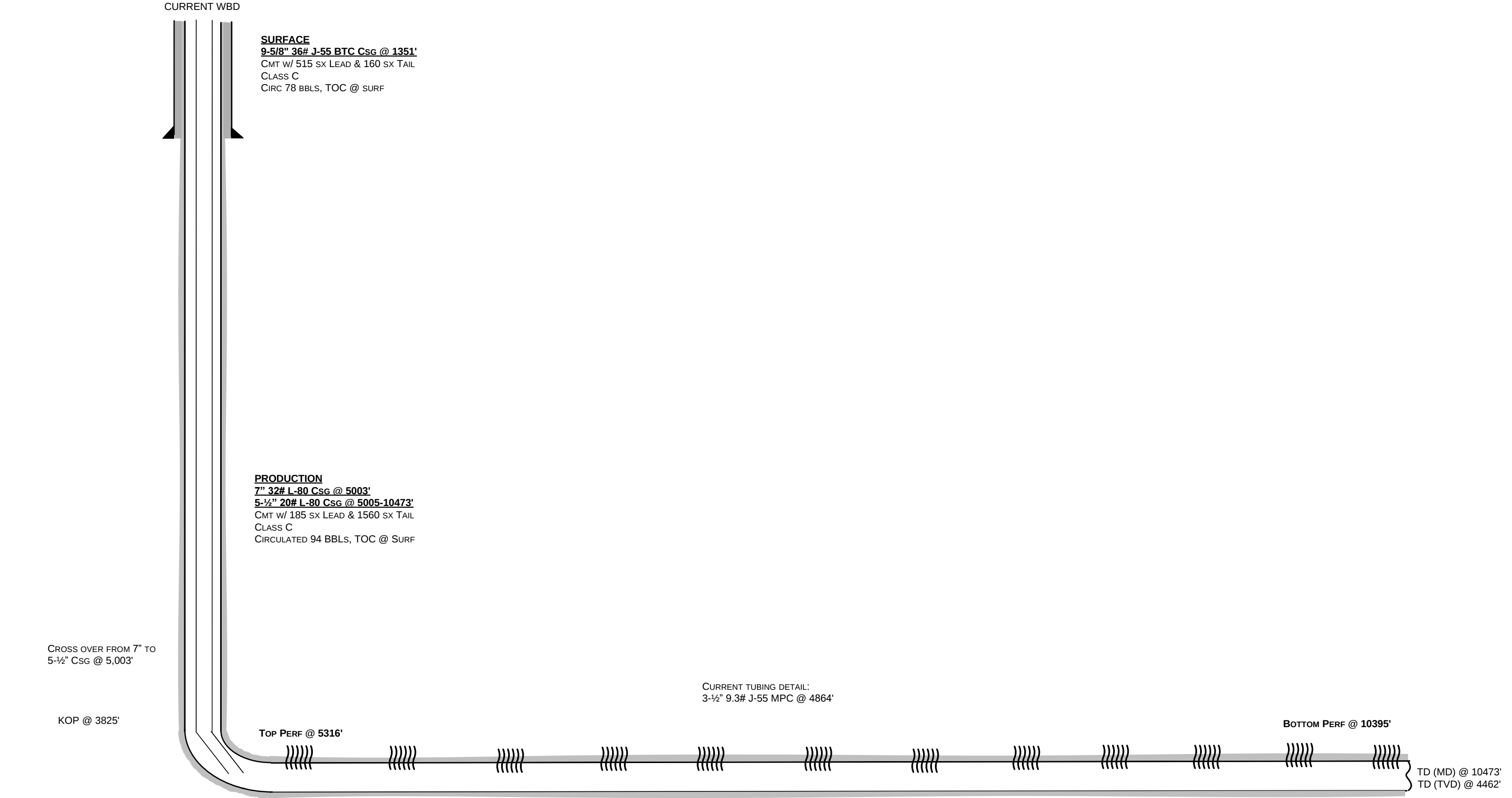
Section 7 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well’s completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well’s completion.	
☒ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
Name SARAH CHAPMAN Sarah Chapman	
Title REGULATORY DIRECTOR	Date 12/02/2024

South Formations				North Formations			
Formation/Zone	MD	TVD	W/O/G	Formation/Zone	MD	TVD	W/O/G
T. Anhy				T. San Jose			
T. Salt				T. Nacimiento			
B. Salt				T. Ojo Alamo			
T. Yates	335	335	O/G	T. Kirtland			
T. 7 Rivers	575	575	O/G	T. Fruitland			
T. Queen	1135	1135	O/G	T. Pictured Cliffs			
T. Grayburg	1657	1590	O/G	T. Lewis Shale			
T. San Andres	2000	1930	O/G	T. Chacra			
T. Glorieta	3433	3410	O/G	T. Cliff House			
T. Yeso	3555	3535	O/G	T. Menefee			
T. Paddock				T. Point Lookout			
T. Blinebry				T. Mancos			
T.Tubb				T. Gallup			
T. Drinkard				T. Greenhorn			
T. Abo				T. Graneros			
T. Wolfcamp				T. Dakota			
T. Penn				T. Morrison			
T. Cisco				T. Bluff			
T. Canyon				T.Todilto			
T. Strawn				T. Entrada			
T. Atoka				T. Wingate			
T. Morrow				T. Chinle			
T. Barnett Shale				T. Permian			
T. Miss				T. Penn A"			
T. Woodford Shale				T. Penn. "B"			
T. Devonian				T. Penn. "C"			
T. Silurian				T. Penn. "D"			
T. Fusselman				T. Leadville			
T. Montoya				T. Madison			
T. Simpson				T. Elbert			
T. McKee				T. McCracken			
T. Waddell				T. Ignacio Otzte			
T. Connel				T. Granite			
T. Ellenburger				T. Hermosa			
T. Gr. Wash				T. De Chelly			
T. Delaware Sand				T. Pinkerton			
T. Lamar Lime							
T. Bell Canyon							
T. Cherry Canyon							
T. Brushy Canyon							
T. Bone Springs							
T. 1st BS Sand							
T. 2nd BS Carbonate							
T. 2nd BS Sand							
T. 3rd BS Carbonate							
T. 3rd BS Sand							

Eddy County, NM
API# 30-015-55070

SPUD DATE: 6/5/2024
ELEV: 3,994' GL, 20' KB



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 413505

ACKNOWLEDGMENTS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 413505
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
☒	I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 413505

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 413505
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report and 3160-5 Completion Sundry within 10 days of BLM approval.	12/18/2024