Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - *Other instructions on page 2*

5. Lease Serial No.
NMNM-03153

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or No.
N/A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
OH RANDEL #5H

2. Name of Operator
XTO ENERGY INC.

9. API Well No.
30-045-34781

3a. Address
382 CR 3100 AZTEC, NM 87410

3b. Phone No. (*include area code*)
505-333-3100

10. Field and Pool, or Exploratory Area
Basin Fruitland Coal

4. Location of Well (*Footage, Sec., T., R., M., or Survey Description*)
1970' FNL & 1790' FEL SWNE SEC.10(G)-T26N-R11W N.M.P.M.

BHL: 700'/N, 700'/W NWNW Sec. 10(D) - T26N - R11W NMPM

11. County or Parish, State
SAN JUAN NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Formation and name change
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Original APD submitted as the OH Randel #5E and permitted formations as Basin Dakota/Gallegos Gallup (Associated).
Changing APD to reflect the new name as OH Randel #5H and changing formation to horizontal Basin Fruitland Coal.
Please see revised attached C-102, drilling program and standard plan.

RCVD FEB 3'11

OIL CONS. DIV.

DIST. 3

H_2S POTENTIAL EXIST

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

Hold C104
for Directional Survey
and "As Drilled" plat

14. I hereby certify that the foregoing is true and correct
Name (*Printed/Typed*) MALIA VILLERS
Title PERMITTING TECH

Signature Malia Villers
Date 1/27/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Troy L Salyers
Title PE
Date 2/2/2011

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 FFO

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

NMOCD

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

DISTRICT II
1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

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 July, 16, 2010
Submit one copy to appropriate District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-34781	71629	Basin Fruitland Coal

[4] Property Code	[5] Property Name	[6] Well Number
22857	OH RANDEL	5H

[7] OGRID No.	[8] Operator Name	[9] Elevation
5380	XTO ENERGY INC.	6379'

[10] Surface Location

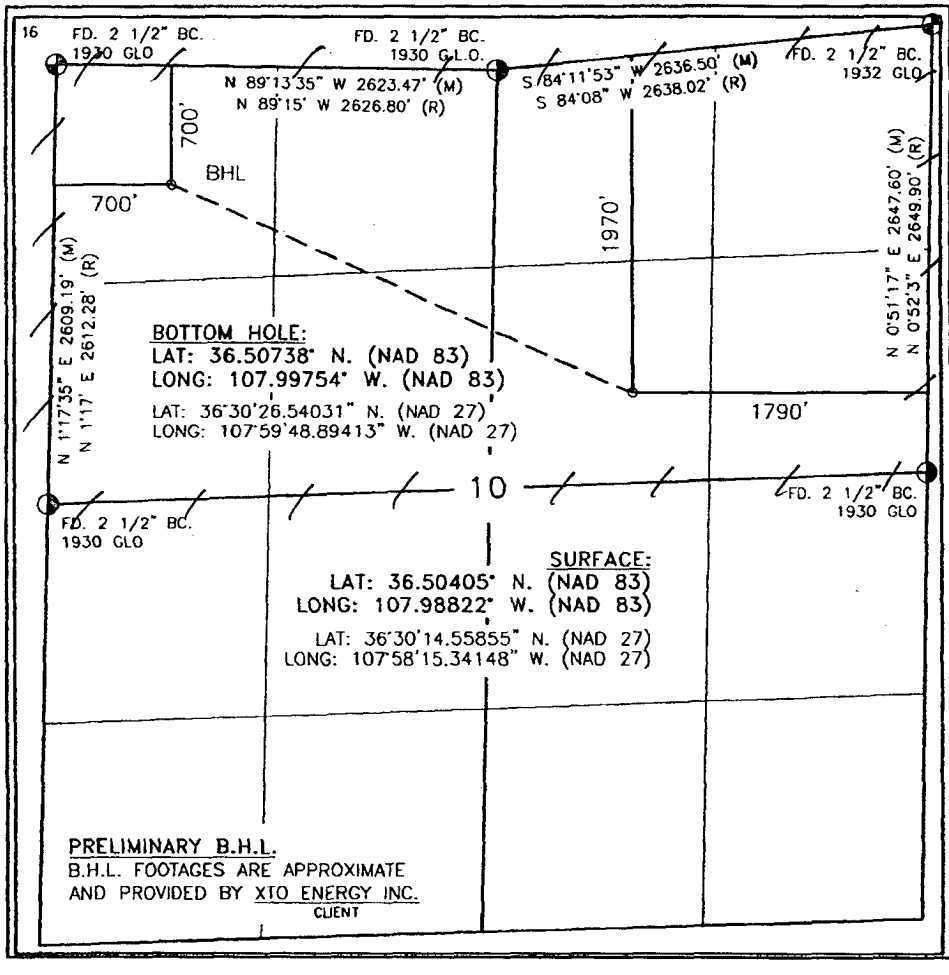
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	10	26-N	11-W		1970	NORTH	1790	EAST	SAN JUAN

[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
D	10	26-N	11-W		700	NORTH	700	WEST	SAN JUAN

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
N/2 320			

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



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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.

Malia Villers 1/27/11
Signature Date

Malia Villers
Printed Name

malia_villers@xtoenergy.com
E-mail Address

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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.

DECEMBER 6, 2010
Date of Survey

Signature and Seal of Professional Surveyor:

NEW MEXICO 8894 REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number

XTO ENERGY INC.

OH Randel #5H
APD Data
January 25, 2011

Location: 1970' FNL x 1790' FEL Sec 10, T26N, R11W **County**: San Juan **State**: New Mexico
Bottomhole Location: 700' FNL x 700' FWL Sec 10, T26N, R11W

GREATEST PROJECTED TVD: 1777'
GREATEST PROJECTED MD: 4461'
OBJECTIVE: Fruitland Coal

APPROX GR ELEV: 6379'
Est KB ELEV: 6391' (12' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 2181'	2181' to TD
HOLE SIZE	12.25"	8.75"	6.125"
MUD TYPE	FW/Spud Mud	FW/Polymer	FW/ Polymer
WEIGHT	8.6-9.0	8.4-9.2	8.4-8.6
VISCOSITY	28-32	28-36	28-36
WATER LOSS	NC	NC	NC

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning.

2. CASING PROGRAM:

Surface Casing: 9.625" casing to be set at ± 225' in a 12-1/4" hole filled with 9.20 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll[1]	SF Burst[2]	SF Ten[3]
0'-225'	225'	36.0#	J-55	ST&C	2020	3520	394	8.921	8.765	18.76	32.7	48.6

Intermediate Casing: 7" casing to be set at ±2181' MD, 1773' TVD in 8.75" hole filled with 9.20 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll[1]	SF Burst[2]	SF Ten[3]
0'-2181	2181'	23.0#	J-55	ST&C	3270	4360	284	6.276	6.151	3.85	5.14	5.66

Production Casing: 4.5" casing to be set at ±4461' MD, 1777' TVD in 6.125" hole filled with 8.4 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll[1]	SF Burst[2]	SF Ten[3]
2121'-4461'	2340'	10.5	J-55	ST&C	4010	4790	132	4.052	3.927	5.18	9.19	5.37

[1]Collapse SF is based on evacuated annulus and hydrostatic at TVD.
[2]Burst SF is based on evacuated casing and hydrostatic at TVD.
[3]Tensile SF is based on hanging air weight of casing in a vertical hole at measured depth.

3. WELLHEAD:

A. Casing Head: WHI QDF System (or equivalent), 9-5/8" x 7", 3,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread ST&C pin end on bottom and 4-1/2" slips on top.
B. Tubing Head: WHI W2F (or equivalent), 7.063" nominal, 5,000 psig WP (5,000 psig test), 5-1/2" slip-on or weld-on.

4. CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):

A. Surface: 9.625", 36.0#, J-55, ST&C casing to be set at ± 225' in 13-1/2" hole.

± 188 sx of Type V cement (or equivalent) typically containing accelerator and LCM, mixed at 15.8 ppg, 1.17 ft^3/sk, & 5.01 gal wtr/sk.

Total slurry volume is 220 ft^3, 100% excess of calculated annular volume to 225'.

B. Production Casing: 7", 23#/ft, J-55, ST&C casing to be set at ±2181'MD, 1773' TVD in 8.75" hole.

LEAD:
± 118 sx of Type V (or equivalent) typically containing accelerator, LCM, dispersant, and fluid loss additives at 12.3 ppg, 2.36 ft^3/sk, & 12.95 gal wtr/sk.

TAIL:
± 100 sx of Type V or Class G cement typically containing accelerator, LCM, dispersant, and fluid loss additives at 13.5 ppg, 1.81 ft^3/sk, & 8.85 gal wtr/sk.

Total estimated slurry volume for the 7" production casing is 460 ft^3.

C. Production Liner: 4.5", 10.5#/ft, J-55, ST&C casing is to be set at 4461' MD, 1777' TVD in 6.125" hole.

The production liner will be set using an uncemented liner hanger. The liner may be tied back to surface during the completion of the well.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs (if available) plus 40%. It will be attempted to circulate cement to the surface.

5. LOGGING PROGRAM:

A. Mud Logger: A geologic consultant or unmanned mud logging unit will begin logging the well once the surface shoe is drilled out and remain on the well to TD.

B. Open Hole Logs as follows: Gamma Ray from Surface shoe to TD.

6. FORMATION TOPS:

See attached Directional Program.

**** Maximum anticipated BHP should be <2,000 psig (<0.30 psi/ft) *****

7. COMPANY PERSONNEL:

Name	Title	Office Phone	Home Phone
Justin Niederhofer	Drilling Engineer	505-333-3199	505-320-0158
Bobby Jackson	Drilling Superintendent	505-333-3224	505-486-4706
Brian Henthorn	Project Geologist	817-885-2800	--

JDN
1/25/11

XTO Energy

San Juan Basin (NAD 83)
OH Randel #5H
OH Randel #5H

OH Randel #5H

Plan: Permitted Wellbore -- OH Randel #5H

Standard Planning Report

20 January, 2011

XTO Energy Inc.

Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well OH Randel #5H
Company:	XTO Energy	**TVD Reference:**	Rig KB @ 6391.00ft (Aztec 507)
Project:	San Juan Basin (NAD 83)	**MD Reference:**	Rig KB @ 6391.00ft (Aztec 507)
Site:	OH Randel #5H	**North Reference:**	True
Well:	OH Randel #5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH Randel #5H		
Design:	Permitted Wellbore – OH Randel #5H		

Project San Juan Basin (NAD 83), San Juan Co., NM,

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site OH Randel #5H, T26N, R11W

Site Position:		**Northing:**	2,002,817.10 ft	**Latitude:**	36° 30' 14.58 N
From:	Lat/Long	**Easting:**	2,677,571.44 ft	**Longitude:**	107° 59' 17.59 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	in	**Grid Convergence:**	-0.09 °

Well OH Randel #5H, Horizontal FC

Well Position	**+N/-S**	0.00 ft	**Northing:**	2,002,817.10 ft	**Latitude:**	36° 30' 14.58 N
	+E/-W	0.00 ft	**Easting:**	2,677,571.44 ft	**Longitude:**	107° 59' 17.59 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	6,379.00 ft	**Ground Level:**	6,379.00 ft

Wellbore OH Randel #5H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.12	63.26	50,743

Design Permitted Wellbore – OH Randel #5H

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	293.88

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,056.82	0.00	0.00	1,056.82	0.00	0.00	0.00	0.00	0.00	0.00	
2,180.57	89.90	293.88	1,773.02	289.38	-653.76	8.00	8.00	0.00	293.88	
4,460.95	89.90	293.88	1,777.00	1,212.39	-2,738.98	0.00	0.00	0.00	0.00	Proposed BHL – OH

XTO Energy Inc.

Planning Report

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Project:	San Juan Basin (NAD 83)	**MD Reference:**	Rig KB @ 6391.00ft (Aztec 507)
Site:	OH Randel #5H	**North Reference:**	True
Well:	OH Randel #5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH Randel #5H		
Design:	Permitted Wellbore -- OH Randel #5H		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
225.00	0.00	0.00	225.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
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
733.00	0.00	0.00	733.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo SS									
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
839.00	0.00	0.00	839.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland Shale									
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
1,056.82	0.00	0.00	1,056.82	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	3.45	293.88	1,099.97	0.53	-1.19	1.30	8.00	8.00	0.00
1,150.00	7.45	293.88	1,149.74	2.45	-5.53	6.05	8.00	8.00	0.00
1,200.00	11.45	293.88	1,199.05	5.77	-13.04	14.26	8.00	8.00	0.00
1,250.00	15.45	293.88	1,247.67	10.48	-23.68	25.89	8.00	8.00	0.00
1,255.54	15.90	293.88	1,253.00	11.09	-25.05	27.39	8.00	8.00	0.00
Fruitland Formation									
1,300.00	19.45	293.88	1,295.35	16.55	-37.39	40.89	8.00	8.00	0.00
1,350.00	23.45	293.88	1,341.88	23.95	-54.11	59.17	8.00	8.00	0.00
1,400.00	27.45	293.88	1,387.02	32.65	-73.76	80.66	8.00	8.00	0.00
1,450.00	31.45	293.88	1,430.55	42.60	-96.23	105.24	8.00	8.00	0.00
1,500.00	35.45	293.88	1,472.25	53.75	-121.43	132.80	8.00	8.00	0.00
1,550.00	39.45	293.88	1,511.94	66.06	-149.23	163.20	8.00	8.00	0.00
1,600.00	43.45	293.88	1,549.41	79.45	-179.49	196.29	8.00	8.00	0.00
1,650.00	47.45	293.88	1,584.47	93.87	-212.07	231.92	8.00	8.00	0.00
1,700.00	51.45	293.88	1,616.97	109.25	-246.81	269.91	8.00	8.00	0.00
1,750.00	55.45	293.88	1,646.74	125.50	-283.53	310.07	8.00	8.00	0.00
1,800.00	59.45	293.88	1,673.63	142.56	-322.06	352.21	8.00	8.00	0.00
1,850.00	63.45	293.88	1,697.52	160.33	-362.22	396.12	8.00	8.00	0.00
1,900.00	67.45	293.88	1,718.28	178.74	-403.80	441.59	8.00	8.00	0.00
1,950.00	71.45	293.88	1,735.83	197.69	-446.60	488.40	8.00	8.00	0.00
2,000.00	75.45	293.88	1,750.06	217.08	-490.42	536.32	8.00	8.00	0.00
2,050.00	79.45	293.88	1,760.92	236.83	-535.04	585.12	8.00	8.00	0.00
2,097.85	83.28	293.88	1,768.10	255.98	-578.29	632.41	8.00	8.00	0.00
Lower Fruitland Coal									
2,100.00	83.45	293.88	1,768.35	256.84	-580.25	634.55	8.00	8.00	0.00
2,150.00	87.45	293.88	1,772.31	277.01	-625.82	684.38	8.00	8.00	0.00
2,180.57	89.90	293.88	1,773.02	289.38	-653.76	714.95	8.00	8.00	0.00
2,181.00	89.90	293.88	1,773.02	289.56	-654.15	715.37	0.00	0.00	0.00
7"									
2,200.00	89.90	293.88	1,773.05	297.25	-671.53	734.37	0.00	0.00	0.00
2,300.00	89.90	293.88	1,773.23	337.72	-762.97	834.37	0.00	0.00	0.00
2,400.00	89.90	293.88	1,773.40	378.20	-854.41	934.37	0.00	0.00	0.00
2,500.00	89.90	293.88	1,773.58	418.67	-945.85	1,034.37	0.00	0.00	0.00
2,600.00	89.90	293.88	1,773.75	459.15	-1,037.30	1,134.37	0.00	0.00	0.00
2,700.00	89.90	293.88	1,773.93	499.63	-1,128.74	1,234.37	0.00	0.00	0.00

XTO Energy Inc.

Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well OH Randel #5H
Company:	XTO Energy	**TVD Reference:**	Rig KB @ 6391.00ft (Aztec 507)
Project:	San Juan Basin (NAD 83)	**MD Reference:**	Rig KB @ 6391.00ft (Aztec 507)
Site:	OH Randel #5H	**North Reference:**	True
Well:	OH Randel #5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH Randel #5H		
Design:	Permitted Wellbore -- OH Randel #5H		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,800.00	89.90	293.88	1,774.10	540.10	-1,220.18	1,334.37	0.00	0.00	0.00
2,900.00	89.90	293.88	1,774.28	580.58	-1,311.62	1,434.37	0.00	0.00	0.00
3,000.00	89.90	293.88	1,774.45	621.05	-1,403.06	1,534.37	0.00	0.00	0.00
3,100.00	89.90	293.88	1,774.62	661.53	-1,494.51	1,634.37	0.00	0.00	0.00
3,200.00	89.90	293.88	1,774.80	702.01	-1,585.95	1,734.37	0.00	0.00	0.00
3,300.00	89.90	293.88	1,774.97	742.48	-1,677.39	1,834.37	0.00	0.00	0.00
3,400.00	89.90	293.88	1,775.15	782.96	-1,768.83	1,934.37	0.00	0.00	0.00
3,500.00	89.90	293.88	1,775.32	823.43	-1,860.28	2,034.37	0.00	0.00	0.00
3,600.00	89.90	293.88	1,775.50	863.91	-1,951.72	2,134.37	0.00	0.00	0.00
3,700.00	89.90	293.88	1,775.67	904.39	-2,043.16	2,234.37	0.00	0.00	0.00
3,800.00	89.90	293.88	1,775.85	944.86	-2,134.60	2,334.37	0.00	0.00	0.00
3,900.00	89.90	293.88	1,776.02	985.34	-2,226.04	2,434.37	0.00	0.00	0.00
4,000.00	89.90	293.88	1,776.20	1,025.81	-2,317.49	2,534.37	0.00	0.00	0.00
4,100.00	89.90	293.88	1,776.37	1,066.29	-2,408.93	2,634.37	0.00	0.00	0.00
4,200.00	89.90	293.88	1,776.54	1,106.77	-2,500.37	2,734.37	0.00	0.00	0.00
4,300.00	89.90	293.88	1,776.72	1,147.24	-2,591.81	2,834.37	0.00	0.00	0.00
4,400.00	89.90	293.88	1,776.89	1,187.72	-2,683.25	2,934.37	0.00	0.00	0.00
4,460.95	89.90	293.88	1,777.00	1,212.39	-2,738.98	2,995.32	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Proposed BHL -- OH Ra - plan hits target - Rectangle (sides W10.00 H10.00 D0.00)	0.00	0.00	1,777.00	1,212.39	-2,738.98	2,004,033.88	2,674,834.41	36° 30' 26.57 N	107° 59' 51.14 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
225.00	225.00	9 5/8"	9.625	12.250
2,181.00	1,773.02	7"	7.000	8.750
4,460.95	1,777.00	4 1/2"	4.500	6.125

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
733.00	733.00	Ojo Alamo SS		0.00	
839.00	839.00	Kirtland Shale		0.00	
1,255.54	1,253.00	Fruitland Formation		0.00	
2,097.85	1,767.00	Lower Fruitland Coal		0.10	293.00
	1,776.00	Base of Lower Coal		0.10	293.00