

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 277802

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701		2. OGRID Number 260297
		3. API Number 30-025-46901
4. Property Code 327076	5. Property Name SOUTH RIDGE 8030 2 11 STATE	6. Well No. 003H

7. Surface Location

UL - Lot E	Section 2	Township 23S	Range 34E	Lot Idn E	Feet From 2295	N/S Line N	Feet From 1185	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot M	Section 11	Township 23S	Range 34E	Lot Idn M	Feet From 50	N/S Line S	Feet From 500	E/W Line W	County Lea
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9. Pool Information

OJO CHISO;BONE SPRING, SOUTH	97293
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3387
16. Multiple N	17. Proposed Depth 11055	18. Formation Bone Spring	19. Contractor	20. Spud Date 2/15/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1200	1035	0
Int1	12.25	9.625	40	5592	1685	0
Prod	8.75	5.5	17	18680	2730	4592

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Katy Reddell	Approved By: Paul F Kautz	
Title:	Title: Geologist	
Email Address: kreddell@btaoil.com	Approved Date: 2/24/2020	Expiration Date: 2/24/2022
Date: 1/30/2020	Phone: 432-682-3753	Conditions of Approval Attached

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

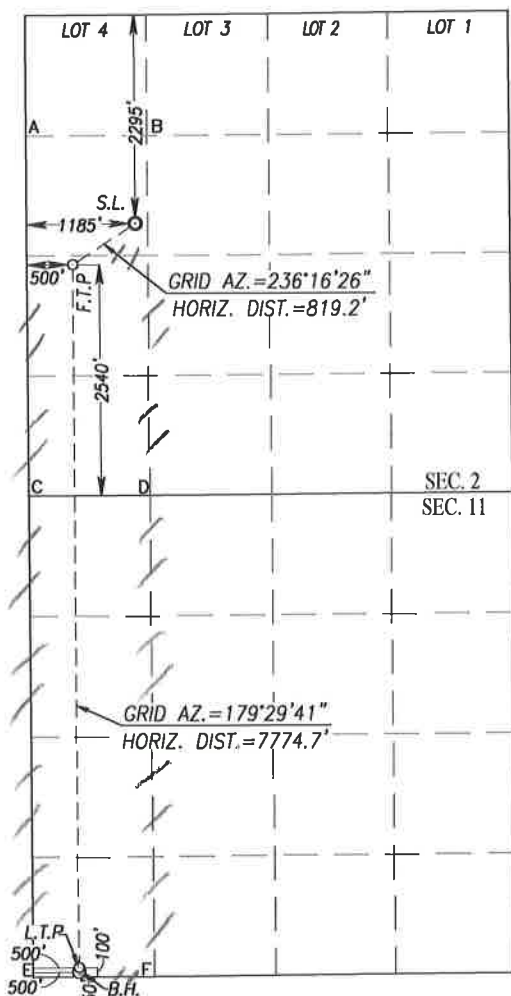
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code		Pool Name Ojo Chiso ; Bone Spring					
Property Code		Property Name SOUTH RIDGE 8030 2-11 STATE						Well Number 3H	
OGRID No. 260297		Operator Name BTA OIL PRODUCERS, LLC						Elevation 3387'	
Surface Location									
UL or lot No. E	Section 2	Township 23-S	Range 34-E	Lot Idn	Feet from the 2295	North/South line NORTH	Feet from the 1185	East/West line WEST	County LEA
Bottom Hole Location If Different From Surface									
UL or lot No. M	Section 11	Township 23-S	Range 34-E	Lot Idn	Feet from the 50	North/South line SOUTH	Feet from the 500	East/West line WEST	County LEA
Dedicated Acres 240		Joint or Infill		Consolidation Code		Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



SCALE: 1"=2000'

GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 486597.8 N X= 815528.9 E LAT.=32.334606° N LONG.=103.445587° W FIRST TAKE POINT NAD 83 NME Y= 486143.0 N X= 814847.8 E LAT.=32.333371° N LONG.=103.447804° W	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 486537.7 N X= 774345.3 E LAT.=32.334481° N LONG.=103.445109° W FIRST TAKE POINT NAD 27 NME Y= 486083.0 N X= 773664.1 E LAT.=32.333247° N LONG.=103.447326° W
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CORNER COORDINATES TABLE
NAD 27 NME
A - Y= 487494.5 N, X= 773152.7 E
B - Y= 487503.7 N, X= 774473.8 E
C - Y= 483539.8 N, X= 773186.4 E
D - Y= 483549.8 N, X= 774508.0 E
E - Y= 478255.9 N, X= 773233.1 E
F - Y= 478267.0 N, X= 774553.5 E

CORNER COORDINATES TABLE
NAD 83 NME
A - Y= 487554.6 N, X= 814336.3 E
B - Y= 487563.8 N, X= 815657.4 E
C - Y= 483599.8 N, X= 814370.0 E
D - Y= 483609.8 N, X= 815691.7 E
E - Y= 478315.7 N, X= 814416.9 E
F - Y= 478326.8 N, X= 815737.3 E

LAST TAKE POINT NAD 83 NME Y= 478419.9 N X= 814915.9 E LAT.=32.312142° N LONG.=103.447791° W	LAST TAKE POINT NAD 27 NME Y= 478360.1 N X= 773732.1 E LAT.=32.312018° N LONG.=103.447313° W
BOTTOM HOLE LOCATION NAD 83 NME Y= 478369.9 N X= 814916.3 E LAT.=32.312005° N LONG.=103.447790° W	BOTTOM HOLE LOCATION NAD 27 NME Y= 478310.1 N X= 773732.5 E LAT.=32.311880° N LONG.=103.447313° W

OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Sammy Hajar* Date: **1/30/2020**
Sammy Hajar
 Printed Name
SHAJAR@BTAOIL.COM
 E-mail Address

SURVEYOR CERTIFICATION

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

Date of Survey: **JANUARY 15, 2020**
 Signature & Seal of Professional Surveyor:


Signature: *Gary G. Eidson* Date: **01/29/2020**
 Certificate Number: **Gary G. Eidson 12641**
Ronald J. Eidson 3239
 ACK REL. W.O.:19111290 JWSC W.O.: 20.11.0003

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GAS CAPTURE PLAN

Date: 2/24/2020

☒ Original

Operator & OGRID No.: [260297] BTA OIL PRODUCERS, LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
SOUTH RIDGE 8030 2 11 STATE #003H	30-025-46901	E-2-23S-34E	2295N 1185W	2000	Flared	Battery Connected to Versado

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to VERSADO GAS PROCESSORS L.L.C. and will be connected to VERSADO GAS PROCESSORS L.L.C. Low Pressure gathering system located in Lea County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. BTA OIL PRODUCERS, LLC provides (periodically) to VERSADO GAS PROCESSORS L.L.C. a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, BTA OIL PRODUCERS, LLC and VERSADO GAS PROCESSORS L.L.C. have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at VERSADO GAS PROCESSORS L.L.C. Processing Plant located in Sec. 03, Twn. 22S, Rng. 37E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on VERSADO GAS PROCESSORS L.L.C. system at that time. Based on current information, it is BTA OIL PRODUCERS, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 277802

PERMIT COMMENTS

Operator Name and Address: BTA OIL PRODUCERS, LLC [260297] 104 S Pecos Midland, TX 79701		API Number: 30-025-46901
		Well: SOUTH RIDGE 8030 2 11 STATE #003H
Created By	Comment	Comment Date
pkautz	Operator is out of compliance with extra bonding requirements	2/1/2020

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Form APD Conditions

Permit 277802

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: BTA OIL PRODUCERS, LLC [260297] 104 S Pecos Midland, TX 79701	API Number: 30-025-46901
	Well: SOUTH RIDGE 8030 2 11 STATE #003H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.

BTA Oil Producers, LLC

Lea County, NM (NAD 83)

South Ridge

South Ridge #03H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

30 January, 2020

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well South Ridge #03H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3388.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3388.0usft (Original Well Elev)
Site:	South Ridge	North Reference:	Grid
Well:	South Ridge #03H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, NM (NAD 83), Lea County, NM		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	South Ridge					
Site Position:		Northing:	486,511.00 usft	Latitude:	32° 20' 3.726 N	
From:	Map	Easting:	815,469.00 usft	Longitude:	103° 26' 44.820 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well	South Ridge #03H					
Well Position	+N/-S	0.0 usft	Northing:	486,597.80 usft	Latitude:	32° 20' 4.580 N
	+E/-W	0.0 usft	Easting:	815,528.90 usft	Longitude:	103° 26' 44.113 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,388.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.70	60.37	48,874.13224662

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	184.26

Plan Survey Tool Program	Date	1/30/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,680.4	Design #1 (Wellbore #1)	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.1	0.00	0.00	1,500.1	0.0	0.0	0.00	0.00	0.00	0.00	
7,265.4	8.00	236.99	7,246.7	-218.9	-337.0	0.14	0.14	0.00	236.99	
10,047.1	8.00	236.99	10,001.3	-429.8	-661.6	0.00	0.00	0.00	0.00	
10,447.1	0.00	0.00	10,400.0	-445.0	-685.0	2.00	-2.00	0.00	180.00	
10,624.6	0.00	0.00	10,577.5	-445.0	-685.0	0.00	0.00	0.00	0.00	
11,374.6	90.00	179.47	11,055.0	-922.4	-680.6	12.00	12.00	0.00	179.47	
18,680.4	90.00	179.47	11,055.0	-8,227.9	-612.6	0.00	0.00	0.00	0.00	South Ridge #03H

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well South Ridge #03H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3388.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3388.0usft (Original Well Elev)
Site:	South Ridge	North Reference:	Grid
Well:	South Ridge #03H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
100.0	0.00	0.00	100.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
200.0	0.00	0.00	200.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
300.0	0.00	0.00	300.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
400.0	0.00	0.00	400.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
500.0	0.00	0.00	500.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
600.0	0.00	0.00	600.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
700.0	0.00	0.00	700.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
800.0	0.00	0.00	800.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
900.0	0.00	0.00	900.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
1,500.1	0.00	0.00	1,500.1	0.0	0.0	486,597.80	815,528.90	32° 20' 4.580 N	103° 26' 44.113 W
1,600.0	0.14	236.99	1,600.0	-0.1	-0.1	486,597.74	815,528.80	32° 20' 4.580 N	103° 26' 44.115 W
1,700.0	0.28	236.99	1,700.0	-0.3	-0.4	486,597.54	815,528.49	32° 20' 4.578 N	103° 26' 44.118 W
1,800.0	0.42	236.99	1,800.0	-0.6	-0.9	486,597.21	815,527.98	32° 20' 4.575 N	103° 26' 44.124 W
1,900.0	0.55	236.99	1,900.0	-1.1	-1.6	486,596.75	815,527.27	32° 20' 4.570 N	103° 26' 44.132 W
2,000.0	0.69	236.99	2,000.0	-1.6	-2.5	486,596.15	815,526.36	32° 20' 4.564 N	103° 26' 44.143 W
2,100.0	0.83	236.99	2,100.0	-2.4	-3.7	486,595.43	815,525.24	32° 20' 4.557 N	103° 26' 44.156 W
2,200.0	0.97	236.99	2,200.0	-3.2	-5.0	486,594.57	815,523.92	32° 20' 4.549 N	103° 26' 44.172 W
2,300.0	1.11	236.99	2,299.9	-4.2	-6.5	486,593.58	815,522.40	32° 20' 4.539 N	103° 26' 44.190 W
2,400.0	1.25	236.99	2,399.9	-5.3	-8.2	486,592.46	815,520.68	32° 20' 4.528 N	103° 26' 44.210 W
2,500.0	1.39	236.99	2,499.9	-6.6	-10.2	486,591.21	815,518.75	32° 20' 4.516 N	103° 26' 44.232 W
2,600.0	1.53	236.99	2,599.9	-8.0	-12.3	486,589.82	815,516.61	32° 20' 4.502 N	103° 26' 44.257 W
2,700.0	1.66	236.99	2,699.8	-9.5	-14.6	486,588.30	815,514.28	32° 20' 4.488 N	103° 26' 44.285 W
2,800.0	1.80	236.99	2,799.8	-11.1	-17.2	486,586.66	815,511.74	32° 20' 4.471 N	103° 26' 44.314 W
2,900.0	1.94	236.99	2,899.7	-12.9	-19.9	486,584.87	815,509.00	32° 20' 4.454 N	103° 26' 44.347 W
3,000.0	2.08	236.99	2,999.7	-14.8	-22.8	486,582.96	815,506.06	32° 20' 4.435 N	103° 26' 44.381 W
3,100.0	2.22	236.99	3,099.6	-16.9	-26.0	486,580.92	815,502.91	32° 20' 4.415 N	103° 26' 44.418 W
3,200.0	2.36	236.99	3,199.5	-19.1	-29.3	486,578.74	815,499.56	32° 20' 4.394 N	103° 26' 44.457 W
3,300.0	2.50	236.99	3,299.4	-21.4	-32.9	486,576.43	815,496.01	32° 20' 4.372 N	103° 26' 44.499 W
3,400.0	2.64	236.99	3,399.3	-23.8	-36.6	486,573.99	815,492.25	32° 20' 4.348 N	103° 26' 44.543 W
3,500.0	2.78	236.99	3,499.2	-26.4	-40.6	486,571.42	815,488.29	32° 20' 4.323 N	103° 26' 44.589 W
3,600.0	2.91	236.99	3,599.1	-29.1	-44.8	486,568.72	815,484.13	32° 20' 4.296 N	103° 26' 44.638 W
3,700.0	3.05	236.99	3,699.0	-31.9	-49.1	486,565.88	815,479.77	32° 20' 4.269 N	103° 26' 44.689 W
3,800.0	3.19	236.99	3,798.8	-34.9	-53.7	486,562.92	815,475.20	32° 20' 4.240 N	103° 26' 44.743 W
3,900.0	3.33	236.99	3,898.6	-38.0	-58.5	486,559.82	815,470.43	32° 20' 4.209 N	103° 26' 44.799 W
4,000.0	3.47	236.99	3,998.5	-41.2	-63.4	486,556.59	815,465.46	32° 20' 4.178 N	103° 26' 44.857 W
4,100.0	3.61	236.99	4,098.3	-44.6	-68.6	486,553.23	815,460.28	32° 20' 4.145 N	103° 26' 44.917 W
4,200.0	3.75	236.99	4,198.1	-48.1	-74.0	486,549.73	815,454.90	32° 20' 4.111 N	103° 26' 44.980 W
4,300.0	3.89	236.99	4,297.9	-51.7	-79.6	486,546.11	815,449.32	32° 20' 4.075 N	103° 26' 45.046 W
4,400.0	4.02	236.99	4,397.6	-55.5	-85.4	486,542.35	815,443.54	32° 20' 4.039 N	103° 26' 45.114 W
4,500.0	4.16	236.99	4,497.4	-59.3	-91.3	486,538.46	815,437.55	32° 20' 4.001 N	103° 26' 45.184 W
4,600.0	4.30	236.99	4,597.1	-63.4	-97.5	486,534.44	815,431.37	32° 20' 3.961 N	103° 26' 45.256 W
4,700.0	4.44	236.99	4,696.8	-67.5	-103.9	486,530.29	815,424.97	32° 20' 3.921 N	103° 26' 45.331 W
4,800.0	4.58	236.99	4,796.5	-71.8	-110.5	486,526.01	815,418.38	32° 20' 3.879 N	103° 26' 45.408 W
4,900.0	4.72	236.99	4,896.2	-76.2	-117.3	486,521.59	815,411.59	32° 20' 3.836 N	103° 26' 45.488 W
5,000.0	4.86	236.99	4,995.8	-80.8	-124.3	486,517.04	815,404.59	32° 20' 3.791 N	103° 26' 45.570 W
5,100.0	5.00	236.99	5,095.4	-85.4	-131.5	486,512.37	815,397.39	32° 20' 3.746 N	103° 26' 45.654 W
5,200.0	5.13	236.99	5,195.1	-90.2	-138.9	486,507.56	815,389.98	32° 20' 3.699 N	103° 26' 45.741 W
5,300.0	5.27	236.99	5,294.6	-95.2	-146.5	486,502.62	815,382.38	32° 20' 3.651 N	103° 26' 45.830 W

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well South Ridge #03H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3388.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3388.0usft (Original Well Elev)
Site:	South Ridge	North Reference:	Grid
Well:	South Ridge #03H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,400.0	5.41	236.99	5,394.2	-100.3	-154.3	486,497.54	815,374.57	32° 20' 3.601 N	103° 26' 45.922 W	
5,500.0	5.55	236.99	5,493.7	-105.5	-162.3	486,492.34	815,366.56	32° 20' 3.550 N	103° 26' 46.016 W	
5,600.0	5.69	236.99	5,593.3	-110.8	-170.5	486,487.01	815,358.35	32° 20' 3.498 N	103° 26' 46.112 W	
5,700.0	5.83	236.99	5,692.8	-116.3	-179.0	486,481.54	815,349.94	32° 20' 3.445 N	103° 26' 46.210 W	
5,800.0	5.97	236.99	5,792.2	-121.9	-187.6	486,475.94	815,341.32	32° 20' 3.390 N	103° 26' 46.311 W	
5,900.0	6.11	236.99	5,891.7	-127.6	-196.4	486,470.22	815,332.50	32° 20' 3.334 N	103° 26' 46.415 W	
6,000.0	6.24	236.99	5,991.1	-133.4	-205.4	486,464.36	815,323.48	32° 20' 3.277 N	103° 26' 46.520 W	
6,100.0	6.38	236.99	6,090.5	-139.4	-214.6	486,458.37	815,314.26	32° 20' 3.218 N	103° 26' 46.628 W	
6,200.0	6.52	236.99	6,189.9	-145.6	-224.1	486,452.24	815,304.84	32° 20' 3.158 N	103° 26' 46.739 W	
6,300.0	6.66	236.99	6,289.2	-151.8	-233.7	486,445.99	815,295.21	32° 20' 3.097 N	103° 26' 46.852 W	
6,400.0	6.80	236.99	6,388.5	-158.2	-243.5	486,439.61	815,285.39	32° 20' 3.035 N	103° 26' 46.967 W	
6,500.0	6.94	236.99	6,487.8	-164.7	-253.5	486,433.09	815,275.36	32° 20' 2.971 N	103° 26' 47.084 W	
6,600.0	7.08	236.99	6,587.0	-171.4	-263.8	486,426.45	815,265.13	32° 20' 2.906 N	103° 26' 47.204 W	
6,700.0	7.22	236.99	6,686.3	-178.1	-274.2	486,419.67	815,254.69	32° 20' 2.840 N	103° 26' 47.326 W	
6,800.0	7.35	236.99	6,785.5	-185.0	-284.8	486,412.76	815,244.06	32° 20' 2.773 N	103° 26' 47.451 W	
6,900.0	7.49	236.99	6,884.6	-192.1	-295.7	486,405.72	815,233.23	32° 20' 2.704 N	103° 26' 47.578 W	
7,000.0	7.63	236.99	6,983.8	-199.2	-306.7	486,398.55	815,222.19	32° 20' 2.634 N	103° 26' 47.707 W	
7,100.0	7.77	236.99	7,082.8	-206.5	-317.9	486,391.25	815,210.95	32° 20' 2.563 N	103° 26' 47.839 W	
7,200.0	7.91	236.99	7,181.9	-214.0	-329.4	486,383.82	815,199.51	32° 20' 2.490 N	103° 26' 47.973 W	
7,265.4	8.00	236.99	7,246.7	-218.9	-337.0	486,378.89	815,191.92	32° 20' 2.442 N	103° 26' 48.062 W	
7,300.0	8.00	236.99	7,280.9	-221.5	-341.0	486,376.27	815,187.89	32° 20' 2.416 N	103° 26' 48.109 W	
7,400.0	8.00	236.99	7,380.0	-229.1	-352.7	486,368.69	815,176.22	32° 20' 2.342 N	103° 26' 48.246 W	
7,500.0	8.00	236.99	7,479.0	-236.7	-364.4	486,361.10	815,164.55	32° 20' 2.268 N	103° 26' 48.383 W	
7,600.0	8.00	236.99	7,578.0	-244.3	-376.0	486,353.52	815,152.87	32° 20' 2.194 N	103° 26' 48.519 W	
7,700.0	8.00	236.99	7,677.1	-251.9	-387.7	486,345.94	815,141.20	32° 20' 2.120 N	103° 26' 48.656 W	
7,800.0	8.00	236.99	7,776.1	-259.4	-399.4	486,338.36	815,129.53	32° 20' 2.046 N	103° 26' 48.793 W	
7,900.0	8.00	236.99	7,875.1	-267.0	-411.0	486,330.78	815,117.86	32° 20' 1.972 N	103° 26' 48.930 W	
8,000.0	8.00	236.99	7,974.1	-274.6	-422.7	486,323.20	815,106.19	32° 20' 1.898 N	103° 26' 49.066 W	
8,100.0	8.00	236.99	8,073.2	-282.2	-434.4	486,315.61	815,094.52	32° 20' 1.824 N	103° 26' 49.203 W	
8,200.0	8.00	236.99	8,172.2	-289.8	-446.1	486,308.03	815,082.85	32° 20' 1.750 N	103° 26' 49.340 W	
8,300.0	8.00	236.99	8,271.2	-297.4	-457.7	486,300.45	815,071.18	32° 20' 1.676 N	103° 26' 49.477 W	
8,400.0	8.00	236.99	8,370.2	-304.9	-469.4	486,292.87	815,059.51	32° 20' 1.602 N	103° 26' 49.613 W	
8,500.0	8.00	236.99	8,469.3	-312.5	-481.1	486,285.29	815,047.84	32° 20' 1.528 N	103° 26' 49.750 W	
8,600.0	8.00	236.99	8,568.3	-320.1	-492.7	486,277.71	815,036.17	32° 20' 1.453 N	103° 26' 49.887 W	
8,700.0	8.00	236.99	8,667.3	-327.7	-504.4	486,270.12	815,024.50	32° 20' 1.379 N	103° 26' 50.024 W	
8,800.0	8.00	236.99	8,766.4	-335.3	-516.1	486,262.54	815,012.83	32° 20' 1.305 N	103° 26' 50.160 W	
8,900.0	8.00	236.99	8,865.4	-342.8	-527.7	486,254.96	815,001.15	32° 20' 1.231 N	103° 26' 50.297 W	
9,000.0	8.00	236.99	8,964.4	-350.4	-539.4	486,247.38	814,989.48	32° 20' 1.157 N	103° 26' 50.434 W	
9,100.0	8.00	236.99	9,063.4	-358.0	-551.1	486,239.80	814,977.81	32° 20' 1.083 N	103° 26' 50.571 W	
9,200.0	8.00	236.99	9,162.5	-365.6	-562.8	486,232.21	814,966.14	32° 20' 1.009 N	103° 26' 50.707 W	
9,300.0	8.00	236.99	9,261.5	-373.2	-574.4	486,224.63	814,954.47	32° 20' 0.935 N	103° 26' 50.844 W	
9,400.0	8.00	236.99	9,360.5	-380.8	-586.1	486,217.05	814,942.80	32° 20' 0.861 N	103° 26' 50.981 W	
9,500.0	8.00	236.99	9,459.5	-388.3	-597.8	486,209.47	814,931.13	32° 20' 0.787 N	103° 26' 51.118 W	
9,600.0	8.00	236.99	9,558.6	-395.9	-609.4	486,201.89	814,919.46	32° 20' 0.713 N	103° 26' 51.254 W	
9,700.0	8.00	236.99	9,657.6	-403.5	-621.1	486,194.31	814,907.79	32° 20' 0.639 N	103° 26' 51.391 W	
9,800.0	8.00	236.99	9,756.6	-411.1	-632.8	486,186.72	814,896.12	32° 20' 0.565 N	103° 26' 51.528 W	
9,900.0	8.00	236.99	9,855.6	-418.7	-644.5	486,179.14	814,884.45	32° 20' 0.491 N	103° 26' 51.665 W	
10,000.0	8.00	236.99	9,954.7	-426.2	-656.1	486,171.56	814,872.78	32° 20' 0.417 N	103° 26' 51.801 W	
10,047.1	8.00	236.99	10,001.3	-429.8	-661.6	486,167.99	814,867.28	32° 20' 0.382 N	103° 26' 51.866 W	
10,100.0	6.94	236.99	10,053.8	-433.6	-667.4	486,164.24	814,861.51	32° 20' 0.345 N	103° 26' 51.933 W	
10,200.0	4.94	236.99	10,153.2	-439.2	-676.1	486,158.60	814,852.83	32° 20' 0.290 N	103° 26' 52.035 W	
10,300.0	2.94	236.99	10,253.0	-442.9	-681.8	486,154.86	814,847.07	32° 20' 0.253 N	103° 26' 52.103 W	
10,400.0	0.94	236.99	10,352.9	-444.8	-684.7	486,153.01	814,844.23	32° 20' 0.235 N	103° 26' 52.136 W	
10,447.1	0.00	0.00	10,400.0	-445.0	-685.0	486,152.80	814,843.90	32° 20' 0.233 N	103° 26' 52.140 W	
10,500.0	0.00	0.00	10,452.9	-445.0	-685.0	486,152.80	814,843.90	32° 20' 0.233 N	103° 26' 52.140 W	

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well South Ridge #03H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3388.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3388.0usft (Original Well Elev)
Site:	South Ridge	North Reference:	Grid
Well:	South Ridge #03H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,600.0	0.00	0.00	10,552.9	-445.0	-685.0	486,152.80	814,843.90	32° 20' 0.233 N	103° 26' 52.140 W	
10,624.6	0.00	0.00	10,577.5	-445.0	-685.0	486,152.80	814,843.90	32° 20' 0.233 N	103° 26' 52.140 W	
10,700.0	9.05	179.47	10,652.6	-450.9	-684.9	486,146.87	814,843.96	32° 20' 0.175 N	103° 26' 52.140 W	
10,800.0	21.05	179.47	10,749.0	-476.8	-684.7	486,120.95	814,844.20	32° 19' 59.918 N	103° 26' 52.139 W	
10,900.0	33.05	179.47	10,837.9	-522.2	-684.3	486,075.57	814,844.62	32° 19' 59.469 N	103° 26' 52.139 W	
11,000.0	45.05	179.47	10,915.4	-585.1	-683.7	486,012.69	814,845.20	32° 19' 58.847 N	103° 26' 52.138 W	
11,100.0	57.05	179.47	10,978.2	-662.7	-683.0	485,935.08	814,845.93	32° 19' 58.079 N	103° 26' 52.137 W	
11,200.0	69.05	179.47	11,023.4	-751.7	-682.1	485,846.11	814,846.75	32° 19' 57.198 N	103° 26' 52.136 W	
11,300.0	81.05	179.47	11,049.2	-848.1	-681.3	485,749.67	814,847.65	32° 19' 56.244 N	103° 26' 52.135 W	
11,374.6	90.00	179.47	11,055.0	-922.4	-680.6	485,675.36	814,848.34	32° 19' 55.509 N	103° 26' 52.134 W	
11,400.0	90.00	179.47	11,055.0	-947.8	-680.3	485,649.98	814,848.58	32° 19' 55.258 N	103° 26' 52.134 W	
11,500.0	90.00	179.47	11,055.0	-1,047.8	-679.4	485,549.99	814,849.51	32° 19' 54.268 N	103° 26' 52.132 W	
11,600.0	90.00	179.47	11,055.0	-1,147.8	-678.5	485,449.99	814,850.44	32° 19' 53.279 N	103° 26' 52.131 W	
11,700.0	90.00	179.47	11,055.0	-1,247.8	-677.5	485,350.00	814,851.37	32° 19' 52.289 N	103° 26' 52.130 W	
11,800.0	90.00	179.47	11,055.0	-1,347.8	-676.6	485,250.00	814,852.30	32° 19' 51.300 N	103° 26' 52.129 W	
11,900.0	90.00	179.47	11,055.0	-1,447.8	-675.7	485,150.01	814,853.23	32° 19' 50.310 N	103° 26' 52.128 W	
12,000.0	90.00	179.47	11,055.0	-1,547.8	-674.7	485,050.01	814,854.16	32° 19' 49.321 N	103° 26' 52.126 W	
12,100.0	90.00	179.47	11,055.0	-1,647.8	-673.8	484,950.02	814,855.09	32° 19' 48.331 N	103° 26' 52.125 W	
12,200.0	90.00	179.47	11,055.0	-1,747.8	-672.9	484,850.02	814,856.02	32° 19' 47.342 N	103° 26' 52.124 W	
12,300.0	90.00	179.47	11,055.0	-1,847.8	-672.0	484,750.02	814,856.95	32° 19' 46.352 N	103° 26' 52.123 W	
12,400.0	90.00	179.47	11,055.0	-1,947.8	-671.0	484,650.03	814,857.88	32° 19' 45.363 N	103° 26' 52.121 W	
12,500.0	90.00	179.47	11,055.0	-2,047.8	-670.1	484,550.03	814,858.81	32° 19' 44.373 N	103° 26' 52.120 W	
12,600.0	90.00	179.47	11,055.0	-2,147.8	-669.2	484,450.04	814,859.74	32° 19' 43.384 N	103° 26' 52.119 W	
12,700.0	90.00	179.47	11,055.0	-2,247.8	-668.2	484,350.04	814,860.67	32° 19' 42.394 N	103° 26' 52.118 W	
12,800.0	90.00	179.47	11,055.0	-2,347.8	-667.3	484,250.05	814,861.60	32° 19' 41.405 N	103° 26' 52.117 W	
12,900.0	90.00	179.47	11,055.0	-2,447.8	-666.4	484,150.05	814,862.53	32° 19' 40.415 N	103° 26' 52.115 W	
13,000.0	90.00	179.47	11,055.0	-2,547.8	-665.4	484,050.06	814,863.46	32° 19' 39.426 N	103° 26' 52.114 W	
13,100.0	90.00	179.47	11,055.0	-2,647.8	-664.5	483,950.06	814,864.39	32° 19' 38.436 N	103° 26' 52.113 W	
13,200.0	90.00	179.47	11,055.0	-2,747.7	-663.6	483,850.07	814,865.32	32° 19' 37.447 N	103° 26' 52.112 W	
13,300.0	90.00	179.47	11,055.0	-2,847.7	-662.6	483,750.07	814,866.25	32° 19' 36.457 N	103° 26' 52.111 W	
13,400.0	90.00	179.47	11,055.0	-2,947.7	-661.7	483,650.08	814,867.18	32° 19' 35.468 N	103° 26' 52.109 W	
13,500.0	90.00	179.47	11,055.0	-3,047.7	-660.8	483,550.08	814,868.11	32° 19' 34.478 N	103° 26' 52.108 W	
13,600.0	90.00	179.47	11,055.0	-3,147.7	-659.9	483,450.09	814,869.04	32° 19' 33.489 N	103° 26' 52.107 W	
13,700.0	90.00	179.47	11,055.0	-3,247.7	-658.9	483,350.09	814,869.97	32° 19' 32.499 N	103° 26' 52.106 W	
13,800.0	90.00	179.47	11,055.0	-3,347.7	-658.0	483,250.10	814,870.90	32° 19' 31.510 N	103° 26' 52.105 W	
13,900.0	90.00	179.47	11,055.0	-3,447.7	-657.1	483,150.10	814,871.83	32° 19' 30.520 N	103° 26' 52.103 W	
14,000.0	90.00	179.47	11,055.0	-3,547.7	-656.1	483,050.11	814,872.76	32° 19' 29.531 N	103° 26' 52.102 W	
14,100.0	90.00	179.47	11,055.0	-3,647.7	-655.2	482,950.11	814,873.69	32° 19' 28.541 N	103° 26' 52.101 W	
14,200.0	90.00	179.47	11,055.0	-3,747.7	-654.3	482,850.12	814,874.62	32° 19' 27.552 N	103° 26' 52.100 W	
14,300.0	90.00	179.47	11,055.0	-3,847.7	-653.3	482,750.12	814,875.55	32° 19' 26.562 N	103° 26' 52.099 W	
14,400.0	90.00	179.47	11,055.0	-3,947.7	-652.4	482,650.13	814,876.48	32° 19' 25.573 N	103° 26' 52.097 W	
14,500.0	90.00	179.47	11,055.0	-4,047.7	-651.5	482,550.13	814,877.41	32° 19' 24.583 N	103° 26' 52.096 W	
14,600.0	90.00	179.47	11,055.0	-4,147.7	-650.6	482,450.14	814,878.34	32° 19' 23.594 N	103° 26' 52.095 W	
14,700.0	90.00	179.47	11,055.0	-4,247.7	-649.6	482,350.14	814,879.27	32° 19' 22.604 N	103° 26' 52.094 W	
14,800.0	90.00	179.47	11,055.0	-4,347.7	-648.7	482,250.14	814,880.20	32° 19' 21.615 N	103° 26' 52.092 W	
14,900.0	90.00	179.47	11,055.0	-4,447.7	-647.8	482,150.15	814,881.13	32° 19' 20.625 N	103° 26' 52.091 W	
15,000.0	90.00	179.47	11,055.0	-4,547.7	-646.8	482,050.15	814,882.06	32° 19' 19.636 N	103° 26' 52.090 W	
15,100.0	90.00	179.47	11,055.0	-4,647.7	-645.9	481,950.16	814,882.99	32° 19' 18.646 N	103° 26' 52.089 W	
15,200.0	90.00	179.47	11,055.0	-4,747.7	-645.0	481,850.16	814,883.92	32° 19' 17.657 N	103° 26' 52.088 W	
15,300.0	90.00	179.47	11,055.0	-4,847.7	-644.0	481,750.17	814,884.85	32° 19' 16.667 N	103° 26' 52.086 W	
15,400.0	90.00	179.47	11,055.0	-4,947.7	-643.1	481,650.17	814,885.79	32° 19' 15.678 N	103° 26' 52.085 W	
15,500.0	90.00	179.47	11,055.0	-5,047.6	-642.2	481,550.18	814,886.72	32° 19' 14.688 N	103° 26' 52.084 W	
15,600.0	90.00	179.47	11,055.0	-5,147.6	-641.3	481,450.18	814,887.65	32° 19' 13.699 N	103° 26' 52.083 W	
15,700.0	90.00	179.47	11,055.0	-5,247.6	-640.3	481,350.19	814,888.58	32° 19' 12.709 N	103° 26' 52.082 W	
15,800.0	90.00	179.47	11,055.0	-5,347.6	-639.4	481,250.19	814,889.51	32° 19' 11.720 N	103° 26' 52.080 W	

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well South Ridge #03H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3388.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3388.0usft (Original Well Elev)
Site:	South Ridge	North Reference:	Grid
Well:	South Ridge #03H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
15,900.0	90.00	179.47	11,055.0	-5,447.6	-638.5	481,150.20	814,890.44	32° 19' 10.730 N	103° 26' 52.079 W	
16,000.0	90.00	179.47	11,055.0	-5,547.6	-637.5	481,050.20	814,891.37	32° 19' 9.741 N	103° 26' 52.078 W	
16,100.0	90.00	179.47	11,055.0	-5,647.6	-636.6	480,950.21	814,892.30	32° 19' 8.751 N	103° 26' 52.077 W	
16,200.0	90.00	179.47	11,055.0	-5,747.6	-635.7	480,850.21	814,893.23	32° 19' 7.762 N	103° 26' 52.076 W	
16,300.0	90.00	179.47	11,055.0	-5,847.6	-634.7	480,750.22	814,894.16	32° 19' 6.772 N	103° 26' 52.074 W	
16,400.0	90.00	179.47	11,055.0	-5,947.6	-633.8	480,650.22	814,895.09	32° 19' 5.783 N	103° 26' 52.073 W	
16,500.0	90.00	179.47	11,055.0	-6,047.6	-632.9	480,550.23	814,896.02	32° 19' 4.793 N	103° 26' 52.072 W	
16,600.0	90.00	179.47	11,055.0	-6,147.6	-632.0	480,450.23	814,896.95	32° 19' 3.804 N	103° 26' 52.071 W	
16,700.0	90.00	179.47	11,055.0	-6,247.6	-631.0	480,350.24	814,897.88	32° 19' 2.814 N	103° 26' 52.069 W	
16,800.0	90.00	179.47	11,055.0	-6,347.6	-630.1	480,250.24	814,898.81	32° 19' 1.825 N	103° 26' 52.068 W	
16,900.0	90.00	179.47	11,055.0	-6,447.6	-629.2	480,150.25	814,899.74	32° 19' 0.835 N	103° 26' 52.067 W	
17,000.0	90.00	179.47	11,055.0	-6,547.6	-628.2	480,050.25	814,900.67	32° 18' 59.846 N	103° 26' 52.066 W	
17,100.0	90.00	179.47	11,055.0	-6,647.6	-627.3	479,950.26	814,901.60	32° 18' 58.856 N	103° 26' 52.065 W	
17,200.0	90.00	179.47	11,055.0	-6,747.6	-626.4	479,850.26	814,902.53	32° 18' 57.867 N	103° 26' 52.063 W	
17,300.0	90.00	179.47	11,055.0	-6,847.6	-625.4	479,750.27	814,903.46	32° 18' 56.877 N	103° 26' 52.062 W	
17,400.0	90.00	179.47	11,055.0	-6,947.6	-624.5	479,650.27	814,904.39	32° 18' 55.888 N	103° 26' 52.061 W	
17,500.0	90.00	179.47	11,055.0	-7,047.6	-623.6	479,550.27	814,905.32	32° 18' 54.898 N	103° 26' 52.060 W	
17,600.0	90.00	179.47	11,055.0	-7,147.6	-622.7	479,450.28	814,906.25	32° 18' 53.909 N	103° 26' 52.059 W	
17,700.0	90.00	179.47	11,055.0	-7,247.6	-621.7	479,350.28	814,907.18	32° 18' 52.919 N	103° 26' 52.057 W	
17,800.0	90.00	179.47	11,055.0	-7,347.5	-620.8	479,250.29	814,908.11	32° 18' 51.930 N	103° 26' 52.056 W	
17,900.0	90.00	179.47	11,055.0	-7,447.5	-619.9	479,150.29	814,909.04	32° 18' 50.940 N	103° 26' 52.055 W	
18,000.0	90.00	179.47	11,055.0	-7,547.5	-618.9	479,050.30	814,909.97	32° 18' 49.951 N	103° 26' 52.054 W	
18,100.0	90.00	179.47	11,055.0	-7,647.5	-618.0	478,950.30	814,910.90	32° 18' 48.961 N	103° 26' 52.053 W	
18,200.0	90.00	179.47	11,055.0	-7,747.5	-617.1	478,850.31	814,911.83	32° 18' 47.972 N	103° 26' 52.051 W	
18,300.0	90.00	179.47	11,055.0	-7,847.5	-616.1	478,750.31	814,912.76	32° 18' 46.982 N	103° 26' 52.050 W	
18,400.0	90.00	179.47	11,055.0	-7,947.5	-615.2	478,650.32	814,913.69	32° 18' 45.993 N	103° 26' 52.049 W	
18,500.0	90.00	179.47	11,055.0	-8,047.5	-614.3	478,550.32	814,914.62	32° 18' 45.003 N	103° 26' 52.048 W	
18,600.0	90.00	179.47	11,055.0	-8,147.5	-613.4	478,450.33	814,915.55	32° 18' 44.014 N	103° 26' 52.046 W	
18,680.4	90.00	179.47	11,055.0	-8,227.9	-612.6	478,369.90	814,916.30	32° 18' 43.218 N	103° 26' 52.046 W	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
South Ridge #03H	0.00	0.00	11,055.0	-8,227.9	-612.6	478,369.90	814,916.30	32° 18' 43.218 N	103° 26' 52.046 W	
- hit/miss target										
- Shape										
- plan hits target center										
- Point										