OR ENT REENTER OR REENTER Single Zone Multiple e No. (include area code) 2) 682-3753 MUNORTHOU P- LOCATIO of acres in lease posed Depth 5' MD 11,635' TVD roximate date work will start 08/01/2015 Attachments Gas Order No.1, must be att 4. Bond to cover th Item 20 above). 5. Operator certifica 6. Such other site s BLM.	e Zone E Zone	FORM APPROV OMB No. 1004-01 Expires March 31, 5. Lease Serial No. NM 14492 6. If Indian, Allotee or Trib  7. If Unit or CA Agreement, 1  8. Lease Name and Well No. Mesa 8105 JV-P #251 9. API Well No. 30-025 - 4 - 2 - 9 10. Field and Pool, or Explorat 72.5 G -08 S - 2 11. Sec., T. R. M. or Blk. and S Sec. 12, T26S-R32E 12. County or Parish Lea Unit dedicated to this well res A Bond No. on file 15. NMB000849 23. Estimated duration 45 days form: unless covered by an existing	ED 137 2007 e Name Name and No. H 2 0 7 7 7 7 7 7 7 7 7 7 7 7 7
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	pecific infor	mation and/or plans as may be	required by the
ame (Printed Typed) Kayla McConnell		Date 04	4/24/2015
nail: kmcconnell@btaoil	.com		
ame (Printed/Typed)		DANO	V 18 2015
BLM-CAR	SBAD	FIELD OFFIC	E
APPROVAL F	or the subje	ct lease which would entitle the	e applicant to
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11/24/15	Inter	ness Surface & mediate Casing	New Wel
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	equitable title to those right APPROVAL F ny person knowingly and w tter within its jurisdiction.	equitable title to those rights in the subje APPROVAL FOR TV ny person knowingly and willfully to mal ter within its jurisdiction.	equitable title to those rights in the subject lease which would entitle th APPROVAL FOR TWO YEARS ny person knowingly and willfully to make to any department or agence ter within its jurisdiction.

NO	30	2015
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# BTA Oil Producers LLC, Mesa 8105 JV-P #25H

Attachment to APD BTA Oil Producers, LLC Mesa 8105 JV-P #25H Sec 12, T26S, R32E Lea County, NM

# 1. Geologic Formations

TVD of target	11635	Pilot hole depth	N/A
MD at TD:	16514	Deepest expected fresh water:	175

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*OBBS OCT
Quaternary Fill	Surface	Water	
Rustler	774	Water	NOA 2 9 50
Top of Salt	1314	Salt	
Base of Salt	4479	Salt	RECEIVEL
Delaware	4774	Oil/Gas	
Cherry Canyon	6054	Oil/Gas	
Brushy Canyon	7474	Oil/Gas	
Bone Spring	8984	Oil/Gas	
Atoka			
Morrow			
Barnett Shale			
Woodford Shale			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

	2.	Casing	Program
500	(	'off	

Hole Casi		g Interval	Csg.Size	Weig	Grade	Conn.	SF	SF	SF
Size	From	То		ht (lbs)			Collapse	Burst	Tension
17.5"	0	804 870'	13.375"	54.5	J55	STC	1.43	1.26	2.59
12.25	0	4744	9.625"	40	J55	LTC	1.19	1.89	2.1
8.75	0	11917	5.5"	17	P110	LTC	1.56	1.6	2.63
7.875	11917	16515	5.5"	17	P110	LTC	1.56	1.6	1.91
				BLM Min	imum Safe	ty Factor	1.125	1	1.6 Dry 1.8 Wet

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

# BTA Oil Producers LLC, Mesa 8105 JV-P #25H

Must have table for contingency casing

	Y or N				
Is casing new? If used, attach certification as required in Onshore Order #1	Y				
Does casing meet API specifications? If no, attach casing specification sheet.					
Is premium or uncommon casing planned? If yes attach casing specification sheet.					
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y				
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y				
Is well located within Canitan Reef?	N				
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N/A				
Is well within the designated 4 string boundary					
is well within the designated 4 string boundary.	SET TRACK SET				
Is well located in SOPA but not in R-111-P?					
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	Y				
La guill la gatad in D. 111. D. and SODA 2.	N				
Is well located in R-111-P and SOPA?	IN				
If yes, are the first three strings cemented to surface?					
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	N/A				
Is well located in high Cave/Karst?	N				
If yes, are there two strings cemented to surface?					
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N/A				
Is well located in critical Cave/Karst?	N				
If yes, are there three strings cemented to surface?	N/A				

# 3. Cementing Program

Casing	#Sks	Wt. lb/ Gal	Yld ft3/ sack	H20 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	570	13.5	1.75	8	10	Lead: Class C
	200	14.8	1.34	8	8	Tail: Class C, circ to surf, 100% excess
Inter.	950	12.7	1.94	8	15	1st stage Lead: Class C Blend
	250	14.8	1.33	8	10	1st stage Tail: Class C, circ to surf, 65% excess
Prod.	1000	11.3	2.92	8	14	1 <sup>st</sup> Lead: 50:50 Blend Class H
	950	14.4	1.22	8	10	1stTail: 50:50 Blend Class H

### BTA Oil Producers LLC, Mesa 8105 JV-P #25H

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

Casing String	TOC	% Excess
Surface	0.	100%
Intermediate	0.	65%
Production	4244`	20%

Include Pilot Hole Cementing specs: Pilot hole depth <u>N/A</u> KOP <u>11166</u>

Plug	Plug	%	No.	Wt.	Yld	Water	Slurry Description and
top	Bottom	Excess	Sacks	lb/gal	ft3/sack	gal/sk	Cement Type
	_						

### 4. Pressure Control Equipment

 $\mathbb{N}^{\mathbb{D}}$  A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		-	Tested to:
			An	nular	X	50% of working pressure
		SM	Blin	d Ram	X	CM
12-1/4"	13-5/8"	3M	Pipe	Pipe Ram Double Ram		315
			Doub			3 WI
			Other*			
			An	nular		
			Blin	d Ram		
			Pipe	e Ram		
			Doub	le Ram		
			Other *			
			An	nular		
			Blin	d Ram		
			Pipe	e Ram		
			Doub	le Ram		
			Other *			

3 Drilling Plan \*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Х	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
ND	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. Y /N Are anchors required by manufacturer?
No	<ul> <li>A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.</li> <li>N/A</li> </ul>

#### 5. Mud Program

0	Depth		Туре	Weight (ppg)	Viscosity	Water Loss	
fe	From	То	STRATE CONTRACTOR		A TRACT	The second second	
D	0	804 870'	FW Spud	8.5-8.8	35-45	N/C	
UM	804	4744	Saturated Brine	10.0-10.2	28-34	N/C	
	4744	TD	Cut Brine	8.6-9.2	28-34	N/C	

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain	PVT/Pason/Visual Monitoring
of fluid?	

# 6. Logging and Testing Procedures

Log	ging, Coring and Testing.
Х	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole).
	Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
X	Drill stem test? If yes, explain - will be run based on geological sample shows
	Coring? If yes, explain

Add	litional logs planned	Interval
	Resistivity	
	Density	
	CBL	
Х	Mud log	Intermediate shoe to TD
	PEX	

# 7. Drilling Conditions

Condition	Specify what type and where?	ALL CAN
BH Pressure at deepest TVD	5400 psi	
Abnormal Temperature	Yes/No	

Mitigation measure for abnormal conditions. Describe. No abnormal pressures or temperatures are anticipated. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

 H2S is present

 X
 H2S Plan attached

# 8. Other facets of operation

Is this a walking operation? If yes, describe. Will be pre-setting casing? If yes, describe.

Attachments

- x Directional Plan
- Other, describe



Attachment to APD BTA Oil Producers, LLC Mesa 8105 JV-P #25H Sec 12, T26S, R32E Lea County, NM

# **BTA Oil Producers, LLC**

Lea County, NM Mesa Sec 1 & 12, T26S, R32E Mesa #25H

Wellbore #1

Plan: Design #1

# **Standard Planning Report**

17 March, 2015

#### BTA Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1 S BTA Oil Produc Lea County, N Mesa Sec 1 & Mesa #25H Wellbore #1 Design #1	ingle User Dt cers, LLC M 12, T26S, R3	2E	Local Co- TVD Refer MD Refere North Ref Survey Ca	ordinate Refe ence: nce: erence: iculation Me	erence: thod:	Well Mesa #25H GL @ 3290.0usft GL @ 3290.0usft Grid Minimum Curvatu	(Original Well Elev (Original Well Elev re	0
Project	Lea County, NM	I, Lea County	, NM						
Map System: Geo Datum: Map Zone:	US State Plane 1 NAD 1927 (NAD New Mexico East	927 (Exact si CON CONUS 1 3001	olution) )	System Dat	um:		Ground Level Using geodetic scale	a factor	
Site	Mesa Sec 1 & 1	2, T26S, R32	E						
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:	388, 718,	357.80 usft 031.00 usft 13-3/16 "	Latitude: Longitud Grid Con	le: vergence:	1	32° 3' 56.723 N 03° 37' 46.202 W 0.37 °
Well	Mesa #25H								
Well Position	+N/-S +E/-W	-611.4 usft 2,902.0 usft	Northing: Easting:		387,746.4	0 usft 0 usft	Latitude: Longitude:	1	32° 3' 50.484 N 03° 37' 12.527 W
Position Uncertainty		0.0 usft	Wellhead Elev	vation:	0.	0 usft	Ground Level:		3,290.0 usft
Wellbore Magnetics	Wellbore #1 Model Nam	e 00510	Sample Date 12/31/2009	Declina (°)	tion 7.76	S.J.	Dip Angle (°) 60.08	Field Streng (nT)	gth 48,692
Design Audit Notes: Version:	Design #1		Phase:	PROTOTYPE	п	e On Depti	n: 0	.0	
Vertical Section:		Depth F (u	rom (TVD) isft)	+N/-S (usft)	+1	E/-W usft) 0.0	Direc (* 182	tion )	
Plan Sections Measured Depth Inclin (usft) (1 0.0	nation Azimut ") (") 0.00	Vertic th Dep (usf	cal th +N/-S t) (usft) 0.0 0.0	+E/-W (usft)	Dogleg Rate (°/100usft) 0.00	Build Rate (°/100us	Turn Rate ft) (°/100usft)	TFO (*) 0.00	Target

#### Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Mesa #25H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3290.0usft (Original Well Elev)
Project:	Lea County, NM	MD Reference:	GL @ 3290.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

#### Planned Survey

14	Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
	100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
	200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
	300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
	400.0	0.00	0.00	400 0	0.0	0.0	0.0	0.00	0.00	0.00	
	500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
	600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
	700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
	800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
	900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
	3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
	3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
	3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
	3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
	3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
	3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
	3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
	3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
	3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
	3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
	4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
	4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
	4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
	4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
	4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
	4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
	4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
	4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
	4,773.6	0.00	0.00	4,773.6	0.0	0.0	0.0	0.00	0.00	0.00	
	4,800.0	0.40	343.30	4,800.0	0.1	0.0	-0.1	1.50	1.50	0.00	
	4 900 0	1 90	343 30	4 900 0	2.0	-0.6	-2.0	1.50	1.50	0.00	
	4 973 6	3.00	343 30	4 973 5	5.0	-1.5	-5.0	1.50	1.50	0.00	
	5,000,0	3.00	343 30	4 999 9	6.3	-1.9	-6.3	0.00	0.00	0.00	
	5 100 0	3.00	343 30	5 099 7	11.4	-3.4	-11.2	0.00	0.00	0.00	
	0,100.0	5.00	040.00	0,000.1	11.4	-0.4	-11.2	0.00	0.00	0.00	

COMPASS 5000.1 Build 72

#### Planning Report

Database: Company: Project: Site: Well: Well: Design:	EDM 5000.1 Single User Db BTA Oil Producers, LLC Lea County, NM Mesa Sec 1 & 12, T26S, R32E Mesa #25H Wellbore #1 Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well Mesa #25H GL @ 3290.0usft (Original Well Elev) GL @ 3290.0usft (Original Well Elev) Grid Minimum Curvature
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#### Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(usft)	(*)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
5,200.0	3.00	343.30	5,199.6	16.4	-4.9	-16.2	0.00	0.00	0.00	
5,300.0	3.00	343.30	5,299.5	21.4	-6.4	-21.1	0.00	0.00	0.00	
5,400.0	3.00	343.30	5,399.3	26.4	-7.9	-26.1	0.00	0.00	0.00	
5,500.0	3.00	343.30	5,499.2	31.4	-9.4	-31.1	0.00	0.00	0.00	
5,600.0	3.00	343.30	5,599.1	36.4	-10.9	-36.0	0.00	0.00	0.00	
5,700.0	3.00	343.30	5,698.9	41.4	-12.4	-41.0	0.00	0.00	0.00	
5,800.0	3.00	343.30	5,798.8	46.4	-13.9	-45.9	0.00	0.00	0.00	
5,900.0	3.00	343.30	5,898.6	51.5	-15.4	-50.9	0.00	0.00	0.00	
6,000.0	3.00	343.30	5,998.5	56.5	-16.9	-55.8	0.00	0.00	0.00	
6,100.0	3.00	343.30	6,098.4	61.5	-18.4	-60.8	0.00	0.00	0.00	
6,200.0	3.00	343.30	6,198.2	66.5	-19.9	-65.7	0.00	0.00	0.00	
6,300.0	3.00	343.30	6,298.1	71.5	-21.5	-70.7	0.00	0.00	0.00	
6,400.0	3.00	343.30	6,398.0	76.5	-23.0	-75.7	0.00	0.00	0.00	
6,500.0	3.00	343.30	6,497.8	81.5	-24.5	-80.6	0.00	0.00	0.00	
6,600.0	3.00	343.30	6,597.7	86.5	-26.0	-85.6	0.00	0.00	0.00	
6,700.0	3.00	343.30	6,697.5	91.6	-27.5	-90.5	0.00	0.00	0.00	
6,800.0	3.00	343.30	6,797.4	96.6	-29.0	-95.5	0.00	0.00	0.00	
6,900.0	3.00	343.30	6,897.3	101.6	-30.5	-100.4	0.00	0.00	0.00	
7,000.0	3.00	343.30	6,997.1	106.6	-32.0	-105.4	0.00	0.00	0.00	
7,100.0	3.00	343.30	7,097.0	111.6	-33.5	-110.4	0.00	0.00	0.00	
7,200.0	3.00	343.30	7,196.9	116.6	-35.0	-115.3	0.00	0.00	0.00	
7,300.0	3.00	343.30	7,296.7	121.6	-36.5	-120.3	0.00	0.00	0.00	
7,400.0	3.00	343.30	7,396.6	126.6	-38.0	-125.2	0.00	0.00	0.00	
7,500.0	3.00	343.30	7,496.4	131.7	-39.5	-130.2	0.00	0.00	0.00	
7,600.0	3.00	343.30	7,596.3	136.7	-41.0	-135.1	0.00	0.00	0.00	
7,700.0	3.00	343.30	7,696.2	141.7	-42.5	-140.1	0.00	0.00	0.00	
7,800.0	3.00	343.30	7,796.0	146.7	-44.0	-145.0	0.00	0.00	0.00	
7,900.0	3.00	343.30	7,895.9	151.7	-45.5	-150.0	0.00	0.00	0.00	
8,000.0	3.00	343.30	7,995.8	156.7	-47.0	-155.0	0.00	0.00	0.00	
8,100.0	3.00	343.30	8,095.6	161.7	-48.5	-159.9	0.00	0.00	0.00	
8,200.0	3.00	343.30	8,195.5	166.8	-50.0	-164.9	0.00	0.00	0.00	
8,300.0	3.00	343.30	8,295.3	171.8	-51.5	-169.8	0.00	0.00	0.00	
8,400.0	3.00	343.30	8,395.2	176.8	-53.0	-174.8	0.00	0.00	0.00	
8,500.0	3.00	343.30	8,495.1	181.8	-54.5	-179.7	0.00	0.00	0.00	
8,600.0	3.00	343.30	8,594.9	186.8	-56.0	-184.7	0.00	0.00	0.00	
8,700.0	3.00	343.30	8,694.8	191.8	-57.5	-189.7	0.00	0.00	0.00	
8,800.0	3.00	343.30	8,794.7	196.8	-59.0	-194.6	0.00	0.00	0.00	
8,900.0	3.00	343.30	8,894.5	201.8	-60.6	-199.6	0.00	0.00	0.00	
9,000.0	3.00	343.30	8,994.4	206.9	-62.1	-204.5	0.00	0.00	0.00	
9,100.0	3.00	343.30	9,094.3	211.9	-63.6	-209.5	0.00	0.00	0.00	
9,200.0	3.00	343.30	9,194.1	216.9	-65.1	-214.4	0.00	0.00	0.00	
9,300.0	3.00	343.30	9,294.0	221.9	-66.6	-219.4	0.00	0.00	0.00	
9,400.0	3.00	343.30	9,393.8	226.9	-68.1	-224.4	0.00	0.00	0.00	
9,500.0	3.00	343.30	9,493.7	231.9	-69.6	-229.3	0.00	0.00	0.00	
9,600.0	3.00	343.30	9,593.6	236.9	-71.1	-234.3	0.00	0.00	0.00	
9,700.0	3.00	343.30	9,693.4	241.9	-72.6	-239.2	0.00	0.00	0.00	
9,800.0	3.00	343.30	9,793.3	247.0	-74.1	-244.2	0.00	0.00	0.00	
9,900.0	3.00	343.30	9,893.2	252.0	-75.6	-249.1	0.00	0.00	0.00	
10,000.0	3.00	343.30	9,993.0	257.0	-77.1	-254.1	0.00	0.00	0.00	
10,100.0	3.00	343.30	10,092.9	262.0	-78.6	-259.0	0.00	0.00	0.00	
10,200.0	3.00	343.30	10,192.7	267.0	-80.1	-264.0	0.00	0.00	0.00	
10,300.0	3.00	343.30	10,292.6	272.0	-81.6	-269.0	0.00	0.00	0.00	
10,400.0	3.00	343 30	10,392.5	277.0	-83 1	-273 9	0.00	0.00	0.00	
10,500.0	3.00	343 30	10 492 3	282.0	-84 6	-278 9	0.00	0.00	0.00	

COMPASS 5000.1 Build 72

#### Planning Report

Design:		Design #1		
Wellbore:		Wellbore #1		
Well:		Mesa #25H	Survey Calculation Method:	Minimum Curvature
Site:		Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Project:		Lea County, NM	MD Reference:	GL @ 3290.0usft (Original Well Elev)
Company:	Ling and	BTA Oil Producers, LLC	TVD Reference:	GL @ 3290.0usft (Original Well Elev)
Database:		EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Mesa #25H

#### Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(usft)	(°)	(*)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
10,600.0	3.00	343.30	10,592.2	287.1	-86.1	-283.8	0.00	0.00	0.00	
10,700.0	3.00	343.30	10,692.1	292.1	-87.6	-288.8	0.00	0.00	0.00	
10 708 1	3.00	343 30	10 700 1	292.5	-87 7	-289.2	0.00	0.00	0.00	
10 800 0	2.08	343 30	10 792 0	296.4	-88 9	-293.0	1.00	-1.00	0.00	
10 900 0	1.08	343 30	10,891,9	299.0	-89.7	-295 7	1 00	-1.00	0.00	
11,000.0	0.08	343.30	10,991,9	300.0	-90.0	-296.6	1.00	-1.00	0.00	
11,008.1	0.00	0.00	11,000.0	300.0	-90.0	-296.6	1.00	-1.00	0.00	
11 100 0	0.00	0.00	11 001 0	200.0	00.0	206.6	0.00	0.00	0.00	
11 165 6	0.00	0.00	11 157 5	300.0	-90.0	-290.0	0.00	0.00	0.00	
11 200 0	4 13	180.89	11 191 9	208.8	-90.0	-295.4	12.00	12.00	0.00	
11 300.0	16.13	180.89	11 290 1	281.2	-90.3	-277 8	12.00	12.00	0.00	
11,400.0	28.13	180.89	11,382.6	243.6	-90.9	-240.3	12.00	12.00	0.00	
11 500.0	40.12	180.80	11 466 2	197 6	01.8	104.2	12.00	12.00	0.00	
11,500.0	40.13	180.89	11,465.2	187.6	-91.8	-184.3	12.00	12.00	0.00	
11,000.0	52.13	100.09	11,004.4	115.7	-92.9	-112.3	12.00	12.00	0.00	
11 800 0	76 13	180.89	11,507.1	50.9	-34.2	-27.0	12.00	12.00	0.00	
11 900 0	88 13	180.89	11 634 7	-161.8	-97.2	165.1	12.00	12.00	0.00	
11,000,0	00.10	100.00	11,001.1	101.0	07.2	100.1	12.00	12.00	0.00	
11,915.6	90.00	180.89	11,635.0	-177.4	-97.4	180.7	12.00	12.00	0.00	
12,000.0	90.00	180.89	11,635.0	-261.8	-98.8	265.1	0.00	0.00	0.00	
12,100.0	90.00	180.89	11,635.0	-361.8	-100.3	365.1	0.00	0.00	0.00	
12,200.0	90.00	180.89	11,635.0	-401.7	-101.9	465,1	0.00	0.00	0.00	
12,500.0	50.00	100.05	11,055.0	-501.7	-103.4	565.0	0.00	0.00	0.00	
12,400.0	90.00	180.89	11,635.0	-661.7	-105.0	665.0	0.00	0.00	0.00	
12,500.0	90.00	180.89	11,635.0	-761.7	-106.6	765.0	0.00	0.00	0.00	
12,600.0	90.00	180.89	11,635.0	-861.7	-108.1	865.0	0.00	0.00	0.00	
12,700.0	90.00	180.89	11,635.0	-961.7	-109.7	965.0	0.00	0.00	0.00	
12,000.0	90.00	100.09	11,635.0	-1,061.7	-111.2	1,064.9	0.00	0.00	0.00	
12,900.0	90.00	180.89	11,635.0	-1,161.7	-112.8	1,164.9	0.00	0.00	0.00	
13,000.0	90.00	180.89	11,635.0	-1,261.7	-114.4	1,264.9	0.00	0.00	0.00	
13,100.0	90.00	180.89	11,635.0	-1,361.6	-115.9	1,364.9	0.00	0.00	0.00	
13,200.0	90.00	180.89	11,635.0	-1,461.6	-117.5	1,464.9	0.00	0.00	0.00	
13,300.0	90.00	180.89	11,635.0	-1,561.6	-119.0	1,564.9	0.00	0.00	0.00	
13,400.0	90.00	180.89	11,635.0	-1,661.6	-120.6	1,664.8	0.00	0.00	0.00	
13,500.0	90.00	180.89	11,635.0	-1,761.6	-122.2	1,764.8	0.00	0.00	0.00	
13,600.0	90.00	180.89	11,635.0	-1,861.6	-123.7	1,864.8	0.00	0.00	0.00	
13,700.0	90.00	180.89	11,635.0	-1,961.6	-125.3	1,964.8	0.00	0.00	0.00	
13,800.0	90.00	180.89	11,635.0	-2,061.6	-126.8	2,064.8	0.00	0.00	0.00	
13,900.0	90.00	180.89	11,635.0	-2,161.5	-128.4	2.164.7	0.00	0.00	0.00	
14,000.0	90.00	180.89	11,635.0	-2,261.5	-130 0	2,264.7	0.00	0.00	0.00	
14,100.0	90.00	180.89	11,635.0	-2,361.5	-131.5	2,364.7	0.00	0.00	0.00	
14,200.0	90.00	180.89	11,635.0	-2,461.5	-133.1	2,464.7	0.00	0.00	0.00	
14,300.0	90.00	180.89	11,635.0	-2,561.5	-134.7	2,564.7	0.00	0.00	0.00	
14,400.0	90.00	180.89	11,635.0	-2,661.5	-136.2	2,664.6	0.00	0.00	0.00	
14,500.0	90.00	180.89	11,635.0	-2,761.5	-137.8	2,764.6	0.00	0.00	0.00	
14,600.0	90.00	180.89	11,635.0	-2,861.5	-139.3	2,864.6	0.00	0.00	0.00	
14,700.0	90.00	180.89	11,635.0	-2,961.4	-140.9	2,964.6	0.00	0.00	0.00	
14,800.0	90.00	180.89	11,635.0	-3,061.4	-142.5	3,064.6	0.00	0.00	0.00	
14 900 0	90.00	180 89	11 635 0	-3 161 4	-144.0	3 164 5	0.00	0.00	0.00	
15,000.0	90.00	180.89	11,635.0	-3,261.4	-145.6	3,264.5	0.00	0.00	0.00	
15,100.0	90.00	180.89	11,635.0	-3,361.4	-147.1	3,364.5	0.00	0.00	0.00	
15,200.0	90.00	180.89	11,635.0	-3,461.4	-148.7	3,464.5	0.00	0.00	0.00	
15,300.0	90.00	180.89	11,635.0	-3,561.4	-150.3	3,564.5	0.00	0.00	0.00	
15 400 0	00.00	180.90	11 625 0	36614	151.0	2 664 4	0.00	0.00	0.00	
15,400.0	90.00	180.89	11,035.0	-3,001.4	-151.6	3,004.4	0.00	0.00	0.00	
114.000.0	20.00	140.00		T 67 . F 67 8 . 67	- 1.1.1.1	N. 1 1 1 1	0.00	0.00	V.VV	

COMPASS 5000.1 Build 72

#### Planning Report

Database: Company: Project: Site: Well: Wellbore:	EDM 5000.1 Single User Db BTA Oil Producers, LLC Lea County, NM Mesa Sec 1 & 12, T26S, R32E Mesa #25H Wellbore #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well Mesa #25H GL @ 3290.0usft (Original Well Elev) GL @ 3290.0usft (Original Well Elev) Grid Minimum Curvature
Planned Survey	Design #1		

#### Measured Vertical Vertical Dogleg Build Turn Depth Depth Rate Inclination Section Rate Azimuth +N/-S +E/-W Rate (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°) (°) (usft) (usft) 15,600.0 90.00 180.89 11,635.0 -3,861.3 -154.9 3,864.4 0.00 0.00 0.00 15,700.0 0.00 0.00 90.00 180.89 11,635.0 -3,961.3 -156.5 3,964.4 0.00 15,800.0 90.00 180.89 11,635.0 -4.061.3 -158.1 4,064.4 0.00 0.00 0.00 15,900.0 90.00 180.89 11,635.0 -4,161.3 -159.6 4,164.3 0.00 0.00 0.00 16,000.0 90.00 180.89 11,635.0 -4,261.3 -161.2 4,264.3 0.00 0.00 0.00 16,100.0 90.00 180.89 0.00 0.00 0.00 11.635.0 -4.361.3 -162.7 4.364.3 16,200.0 90.00 180.89 0.00 0.00 0.00 11,635.0 -4,461.3 -164.3 4,464.3 16,300.0 90.00 180.89 11,635.0 -4,561.3 -165.9 4,564.3 0.00 0.00 0.00 16,400.0 90.00 180.89 0.00 0.00 0.00 -4,661.2 -167.4 4,664.2 11.635.0 16,500.0 -169.0 0.00 90.00 180.89 11,635.0 -4,761.2 4,764.2 0.00 0.00 16,514.8 90.00 180.89 11,635.0 -4,776.1 -169.2 4,779.1 0.00 0.00 0.00 Mesa #25H BHL

Design Targets							Martin Contraction	1	
Target Name						Sant St			
<ul> <li>hit/miss target</li> </ul>	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
Mesa #25H BHL - plan hits target ce - Point	0.00 enter	0.00	11,635.0	-4,776.1	-169.2	382,970.50	720,763.70	32° 3' 3.234 N	103° 37' 14.860 W



# 13-5/8" 5,000 PSI BOP



BTA OIL PRODUCERS, LLC 8105 JV-P Mesa #20H Attachment to APD



BTA OIL PRODUCERS, LLC 8105 JV-P Mesa #20H Attachment to APD