District I 1625 N. French Dr., Hobbs, NM 8 District II 1301 W. Grand Avenue, Artesi District III 1000 Rio Brazos Road, Aztec, NM District IV 1220 S. St. Francis Dr., Santa Fe, NN

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

JUN 142007

Form C-101 May 27, 2004

OCD-ARTESIA May 27, 2004
Submit to appropriate District Office

☐ AMENDED REPORT

AFF	LICAT	<u>ION FO</u>	R PERMIT Operator Name	TO DRILL, RE and Address	-ENTE	R, DEEP	EN, PLUGBA 151416	7	
			Ranch, Ltd						5°5663
303 Prope	west orty Code	Wall,	Suite 1800	Midland, T	v Name	01	1 30 -	<u> </u>	Well No.
365			Brant	:ley <u>"7"</u>	y i turne				1
			Proposed Pool 1					posed Pool 2	
Undesig	nated	Cass D	raw;Delawa		_	Undes	signated Cas	s Draw;	Rone Spring
		T .		⁷ Surfac	e Locat				
UL or lot no.	Section 7	Township 23S	Range 28E		from the	North/South lir North	Feet from the	East/West line West	County Eddy
	•	1 2 3 5		osed Bottom Hole Loc				1 11000	
UL or lot no.	Section	Township				North/South lir		East/West line	e County
UL or lot no.	7	23S	28E	22	from the	North	Feet from the 1980	West	Eddy
		r		Additional W		<u>rmation</u>			
'' Work' N	Type Code		12 Well Type Cod		ble/Rotary Rotary		¹⁴ Lease Type Code P	15	Ground Level Elevation
	ultiple		17 Proposed Dept		ormation		19 Contractor		20 Spud Date
N		620	00' TVD.75	69' MD Delay	are/B				8/1/07
Depth to Groun	ndwater	40 ¹		Distance from nearest free	sh water wel	1	Distance fro	m nearest surface than	water 1 mile
Pit: Liner:	Synthetic [12 mils	thick Clay	Pit Volume:bbls	E	Orilling Method:			
Closed	Loop Syste	m 🗆		10000			ine Diesel/Oil-base	ad □ Gas/Air □]
			21	Proposed Casing	and Ce	ment Prog	ram		
Hole S	ize	Cas	sing Size	Casing weight/foot		Setting Depth	Sacks of C	Cement	Estimated TOC
17_1	/2"	13	3/8"	48# 40	8# 400 -		500		surface
12 1.			5/8"	36#		2400 '	900		surface
8 3,	/4"	5	1/2"	17#		6200' TV			
		 			+	7569' MI	1000		2300' MD
				to DEEPEN or PLUG BA	-	ne data on the p	resent productive zone	and proposed ne	ew productive zone.
Describe the o	lowout pre	vention progr	am, many. Osca	iditional sheets if necessar	y.				
									elaware and/or
									00' for analysis ments for plats
				o. Our H2S Cor					ments for place
=			=	1980' FWL, Pe	•	-			FUI
			L, 1980' I		песта	cion io:	.me. 000 II	111, 1700	, whi
					·face /	owner co	ncerning th	ie locat	ion and has agre
Fasken									1011 did ndo dg
								TION DIV	ICION
to citl I hereby cer				general permit \square , or an		OII	L CONSERVA	TION DIV	ISION
to eith Thereby cer of my knowled constructed a	ige and bel sccording	to NMOCD							
to eitl Thereby cer of my knowled constructed a (attached) alt	ige and bel according the ernative C	to NMOCD OCD-approv	ed plan .) .	Approv	ved by:			
to eitl Thereby cer of my knowled constructed a (attached) alt	ige and bel according the ernative C	to NMOCD	ed plan .). elice	Approv	ved by:	BRYAN G.		
to citl I hereby cer of my knowlec constructed a (attached) alt Signature:	dge and bel according the ernative (to NMOCD OCD-approv	ed plan	lice	Approv	ved by:	BRYAN G.	II GEOLC	
to citl 23 I hereby cer of my knowled constructed a (attached) alt Signature:	dge and bel according the ernative C	to NMOCD OCD-approv MMY D.	Carlile	Coordinator	Title:		DISTRICT	II GEOLC	LIN 1 4 2008
to citl Thereby cer of my knowled constructed a (attached) alt Signature: Printed name:	dige and bel according ernative C Ji Re	mmy D. gulator	Carlile cy Affairs	Coordinator	Title:	val DalUN	DISTRICT	II GEOLC	LIN 1 4 2008
to citl Thereby cer of my knowled constructed a (attached) alt Signature:	Ji Re s: ji	mmy D. gulator	Carlile cy Affairs	Coordinator	Title:	val DAUN	DISTRICT	II GEOLC Expiration Date:	LIN 1 4 2008

District I

1625 N. French Dr., Hobbs, NM 88240

District []

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Santa Fe, NM 87505

RECEIVED

Form C-102

Energy, Minerals & Natural Resources Department PR 12 2007 Revised October 12, 2005

OH. CONSEDVATION DIVISION

1 2 2007 Revised October 12, 2005 Appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

FASKEN OIL AND State Lease - 4 Copies

RANCH, LTD.

Fee Lease - 3 Copies

☐ AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION DLAT

		V	ARTT TO	JÇAHO.	N AND ACK	EAGE DEDIC	AHON PLA	.i				
1	API Numbe	г		Pool Code	•		Pool Na	me				
				104	10	Undesignated Cass Draw; Delaware						
Property (Code				Property I	0,	Well Number					
		В	rantley	<i>7</i> "7"		Bra	ntley "7" No. 1					
OGRID	No.				Operator l	Name			Elevation			
_151416		F	asken (Dil and	Ranch, Ltd							
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			
C	7	23 S	28 E		330	FNL	1980	FWL	EDDY			
			¹¹ B	ottom Ho	le Location I	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			
F	7	23S	28E		2280	North	1980	West	Eddy			
Dedicated Acre	s Joint o	or Infill	Consolidation	Code 15 O	rder No.							
80												

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.

16	•			¹⁷ OPERATOR CERTIFICATION
1480'	*			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
			l	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.
				Sterring Carrie 4/13/07
				Jimmy D. Carlile jimmyc@forl.com PrintedName Regulatory Affairs Coordinator
	80 4e.			180
				¹⁸ SURVEYOR CERTIFICATION
				I hereby certify that the well location shown on this plat was
		i		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.
				MARCH 13, 2007
				Date of Survey
				Signature and Seal of Professional Surveyor MA D S S S S S S S S S S S S S S S S S S

District I 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210 District III

1000 Rio Brazos Rd., Aztec, NM 87410 District IV

State of New Mexico

RECEIVED

Form C-102

Energy, Minerals & Natural Resources Department APR 12 2007 Revised October 12, 2003 Submit to Appropriate District Office

1220 South St. Francis Dr.

FASKEN OIL AND State Lease - 4 Copies RANCH, LTD.

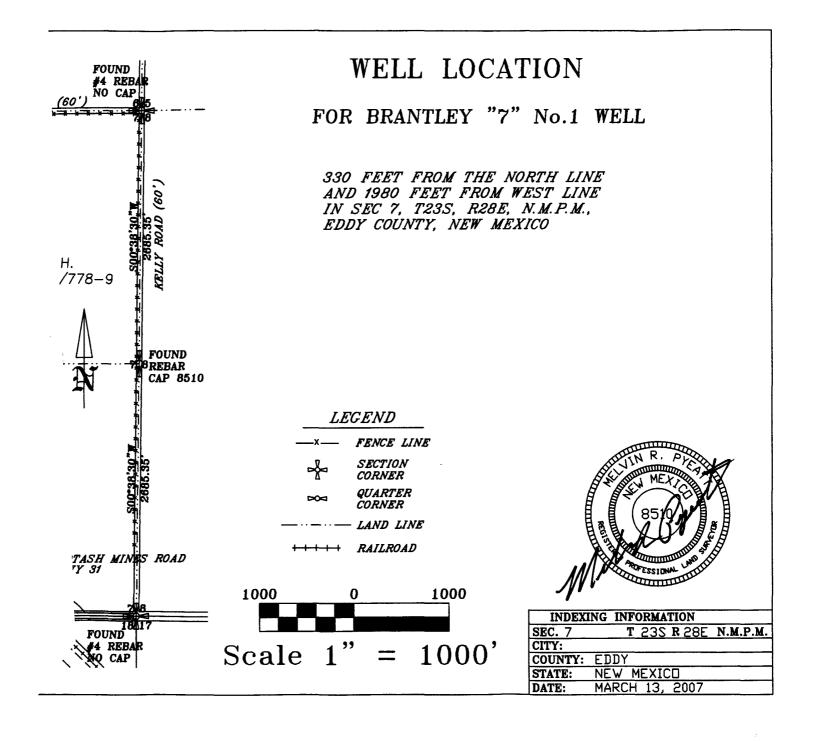
Fee Lease - 3 Copies

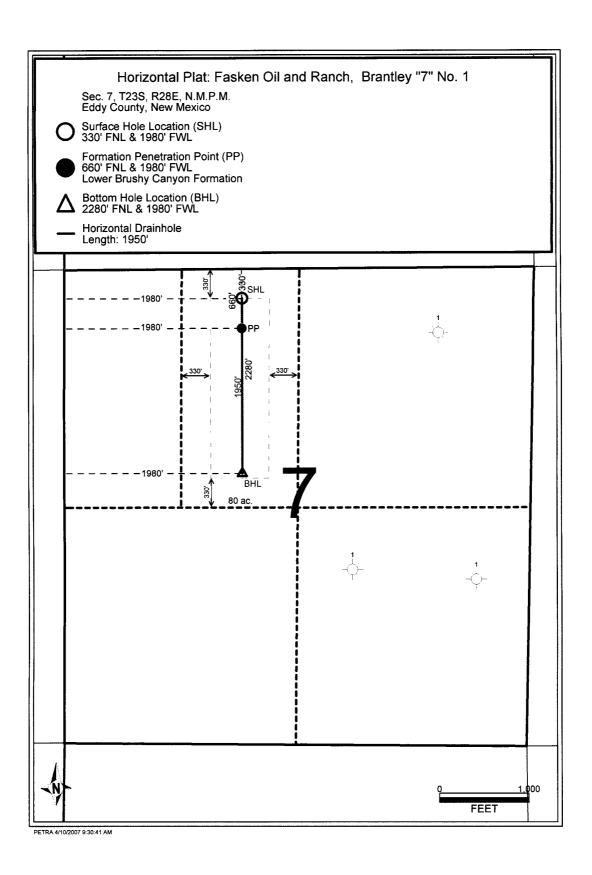
Santa Fe, NM 87505

1220 S. St. Francis Dr., Santa Fe, NM 87505 ☐ AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name Undesignated Cass Draw; Bone Spring **Property Code** Property Name Well Number Brantley "7" Brantley "7" No. 1 OGRID No. Operator Name Elevation 151416 Fasken Oil and Ranch, Ltd. ¹⁰ Surface Location UL or lot no. Section Township Lot Idn Feet from the North/South line East/West line Range Feet from the County 28 E 23 S 330 FNL 1980 **FWI** C **EDDY** Bottom Hole Location If Different From Surface UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 7 F 23S 28E 2280 North 1980 Eddy West Dedicated Acres Consolidation Code Joint or Infill Order No. 80

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

16	330.	¹⁷ OPERATOR CERTIFICATION
(980	<u>~</u>	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.
	·	Juny (allee 4/13/07
		Signature Date
		Jimmy D. Carlile jimmyc@forl.co
		Printed Name
		Regulatory Affairs Coordinator
	80oc.	
		¹⁸ SURVEYOR CERTIFICATION
	į	I hereby certify that the well location shown on this plat was
		plotted from field notes of actual surveys made by me or
	ļ	under my supervision, and that the same is true and correct
	;	to the best of my belief.
		MARCH 13, 2007
		Date of Survey
		N N
	1	Signature and Seal of Professional Surveyor:
		11.2
}		AUX
1		
Í		85/0%
1		Certificate Number
		SHOTATOOR STATE





Pathfinder Energy Planning Report

Company: Fasken Oil & Ranch Field:

Date: 4/10/2007

Time: 08:58:35

Brantley 7 #1 Brantley 7 #1 Co-ordinate(NE) Referen Dite: Brantley 7 #1, Grid North

Site: Brantley 7 #1 Well:

Vertical (TVD) Reference SITE 12.0 Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)

Wellpath: OH

Plan #1 2-9-07

Field: Brantley 7 #1

Map SystemUS State Plane Coordinate System 1927

Map Zone:

New Mexico, Eastern Zone

Geo Datum NAD27 (Clarke 1866) Sys Datum: Mean Sea Level

Coordinate System:

Site Centre igrf2005 Geomagnetic Model:

Brantley 7 #1

Site Position: From:

Northing: Easting:

563418.90 ft 482438.70 ft Latitude: Longitude:

32 32 56.161 N 104 23

Мар Position Uncertainty:

0.00 ft

North Reference:

25.173 W Grid

Ground Level:

3050.00 ft

Grid Convergence:

-0.03 deg

Well:

Slot Name:

Well Position: +E/-W

Brantley 7 #1

0.00 ft Northing: 0.00 ft Easting:

563418.90 ft 482438.70 ft Longitude:

32 32 56.161 N 104 23 25.173 W

Position Uncertainty:

0.00 ft

Drilled From: Surface

Current Datum: SITE

0.00

Height 12.00 ft

Tie-on Depth: Above System Datum: Mean Sea Level

0.00 ft

Magnetic Data: Field Strength:

Wellpath: OH

2/9/2007 49197 nT

Declination: Mag Dip Angle: 8.49 deg

Vertical Section: Depth From (TVD)

+E/-W

60.45 deg Direction

+N/-Sft ft 0.00

ft 0.00

deg 180.00

Plan:

Plan #1 2-9-07

Date Composed: Version:

2/9/2007

Principal: No

Tied-to:

From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100	Build ft deg/100f	Turn t deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5346.50	0.00	0.00	5346.50	0.00	0.00	0.00	0.00	0.00	0.00	
6096.56	90.00	180.00	5824.00	-477.50	0.00	12.00	12.00	0.00	180.00	
7569.06	90.00	180.00	5824.00	-1950.00	0.00	0.00	0.00	0.00	0.00	

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100	Build ft deg/100	Turn ft deg/100ft	Tool/Comment
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	
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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	

Pathfinder Energy Planning Report

Company: Fasken Oil & Ranch Field: Brantley 7 #1 Site: Brantley 7 #1 Well: Brantley 7 #1

Date: 4/10/2007 Time: 08:58:35 Co-ordinate(NE) Referencite: Brantley 7 #1, Grid North Vertical (TVD) ReferenceSITE 12.0

Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)

Plan: Plan #1 2-9-07

Survey

Wellpath: OH

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100	Build ft deg/1001	Turn ft deg/100ft	Tool/Comment
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
						0.00		0.00	0.00	
600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
000 00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
000.00			4000.00			0.00	0.00	0.00	0.00	
100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	4700.00	0.00	0.00	0.00				
							0.00	0.00	0.00	
800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	
00.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	
346.50	0.00	0.00	5346.50	0.00	0.00	0.00	0.00	0.00	0.00	KOP@ 5346' MD/TVD
400.00	6.42	180.00	5399.89	-2.99	0.00	2.99	12.00	12.00	0.00	
500.00	18.42	180.00	5497.37	-24.46	0.00	24.46	12.00	12.00	0.00	
600.00	30.42	180.00	5588.26	-65.72	0.00	65.72	12.00	12.00	0.00	
700.00	42.42	180.00	5668.58	-124.98	0.00	124.98	12.00	12.00	0.00	
800.00	54.42	180.00	5734.83	-199.64	0.00	199.64	12.00	12.00	0.00	
000 00	66.42	100.00	570A 11	206 45	0.00	206 45	12.00	40.00	0.00	
900.00 945.00	66.42 71.81	180.00 180.00	5784.11 5800.15	-286.45 -328.48	0.00 0.00	286.45 328.48	12.00 12.00	12.00 12.00	0.00 0.00	Penetrate Lower Brushy
000.00	78.41	180.00								Felicuate Lower Diusny
			5814.27	-381.60	0.00	381.60	12.00	12.00	0.00	EOO @ 0000 MD 500 H
096.56 100.00	90.00 90.00	180.00 180.00	5824.00 5824.00	-477.50 -480.94	0.00 0.00	477.50 480.94	12.00 0.00	12.00 0.00	0.00 0.00	EOC @ 6096' MD, 5824'
. 50.00	30.00	100.00	JU27.00	-700.34	0.00	∓∪∪.∂ *1	0.00	0.00	0.00	
200.00	90.00	180.00	5824.00	-580.94	0.00	580.94	0.00	0.00	0.00	
300.00	90.00	180.00	5824.00	-680.94	0.00	680.94	0.00	0.00	0.00	
400.00	90.00	180.00	5824.00	-780.94	0.00	780.94	0.00	0.00	0.00	
500.00	90.00	180.00	5824.00	-880.94	0.00	880.94	0.00	0.00	0.00	
600.00	90.00	180.00	5824.00	-980.94	0.00	980.94	0.00	0.00	0.00	
	30.00	100.00	3024.00	-900.94	0.00	300.34	0.00	0.00	0.00	

Pathfinder Energy

Planning Report

Company: Fasken Oil & Ranch Field: Brantley 7 #1 Site: Brantley 7 #1 Well: Brantley 7 #1 Wellpath: OH

Page:

Date: 4/10/2007 Time: 08:58:35
Co-ordinate(NE) Referencate: Brantley 7 #1, Grid North
Vertical (TVD) Reference: SITE 12.0
Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
Plan: Plan #1 2-9-07

Survey

	MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100f	Build t deg/100	Turn ft deg/100ft	Tool/Comment
П	6700.00	90.00	180.00	5824.00	-1080.94	0.00	1080.94	0.00	0.00	0.00	
	6800.00	90.00	180.00	5824.00	-1180.94	0.00	1180.94	0.00	0.00	0.00	
П	6900.00	90.00	180.00	5824.00	-1280.94	0.00	1280.94	0.00	0.00	0.00	ſ
	7000.00	90.00	180.00	5824.00	-1380.94	0.00	1380.94	0.00	0.00	0.00	
	7100.00	90.00	180.00	5824.00	-1480.94	0.00	1480.94	0.00	0.00	0.00	
l	7200.00	90.00	180.00	5824.00	-1580.94	0.00	1580.94	0.00	0.00	0.00	
	7300.00	90.00	180.00	5824.00	-1680.94	0.00	1680.94	0.00	0.00	0.00	
1	7400.00	90.00	180.00	5824.00	-1780.94	0.00	1780.94	0.00	0.00	0.00	
	7500.00	90.00	180.00	5824.00	-1880.94	0.00	1880.94	0.00	0.00	0.00	
1	7569.06	90.00	180.00	5824.00	-1950.00	0.00	1950.00	0.00	0.00	0.00	

Targets

Name	Descrip Dip.	tion Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	< Latitude Deg Min Sec	->< Longitude Deg Min Sec
PBHL			5824.00	-1950.00	0.00	561468.90	482438.70	32 32 36.864 N	104 23 25.161 W

Annotation

	MD ft	TVD ft	
. [5346.50	5346.50	KOP@ 5346' MD/TVD
П	6096.56	5824.00	EOC @ 6096' MD, 5824' TVD
	5945.00	5800.15	Penetrate Lower Brushy Canyon @ 5945' MD

Fasken Oil & Ranch



WELLPATH DETAILS COMPANY DETAILS SITE DETAILS OH Fasken Oil & Ranch 303 W. Wall Ave., Ste. 1800 Midland, TX 79701 Brantley 7 #1 Rig: Ref. Datum: Site Centre Northing: 563418.90 Easting: 482438.70 SITE 12.00ft Calculation Method: Minimum Curvature V.Section Error System: Systematic Ellipse Ground Level: 3050.00 Starting From TVD Angle Scan Method: Closest Approach 3D Positional Uncertainty: 0.00 Convergence: -0.03 Error Surface: Elliptical Conic Warning Method: Error Ratio 180.00° 0.00 WELL DETAILS Name +N/-S +E/-W Northing Slot Easting Latitude Longitude Brantley 7 #1 0.00 563418.90 482438.70 32°32'56.161N 104°23'25.173W N/A

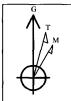
SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	5346.50	0.00	0.00	5346.50	0.00	0.00	0.00	0.00	0.00		
3	6096.56	90.00	180.00	5824.00	-477.50	0.00	12.00	180.00	477.50		
4	7569.06	90.00	180.00	5824.00	-1950.00	0.00	0.00	0.00	1950.00		

ANNOTATIONS

No. TVD MD Annotation

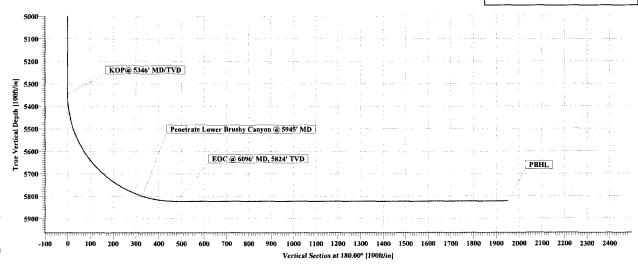
1 5346.50 5346.50 KOP@ 5346' MD/TVD 2 5824.00 6096.56 EOC @ 6096' MD, 5824' TVD

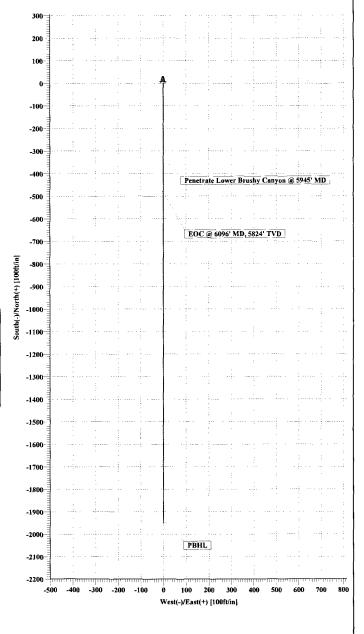
5800.15 5945.00 Penetrate Lower Brushy Canyon @ 5945' MD



Azimuths to Grid North True North: 0.03° Magnetic North: 8.52°

Magnetic Field Strength: 49197nT Dip Angle: 60.45° Date: 2/9/2007 Model: igrf2005





Plan Plan #1 1-9-07 (Brantley "#1/OH:

Recommended Procedure

Brantley "7" No. 1

Eddy County, New Mexico

- 1. Install inset cattle guard with gate and build road and location with grade at 1.5' above ground elevation. Well location and road will be situated in a flooded alfalfa field.
- 2. Set 20" conductor at 40', drill rat hole and mouse hole. MIRU rotary tools.
- 3. Drill 17-1/2" hole to 500' with spud mud. Set and cement 13-3/8" casing with 500 sx Class "C" cement with 2% $CaCl_2$ (s.w. 14.8 ppg, yield 1.32 cuft/sx). WOC 12 hrs. Install 13-3/8" SOW x 13-5/8" 3000# bradenhead. NU 13-5/8" 3000# annular preventer.
- 4. Drill 12-1/4" hole to 2400' with 10 ppg brine water. Control seepage with paper. Dry drill if complete loss of returns is experienced.
- 5. Set and cement 9-5/8" casing at 2400' and cement with an estimated 600 sx Class "C" with 4% gel and 2% CaCl₂ (s.w. 13.50 ppg, yield 1.74 ft³/sx) plus 200 sx Class "C" with 2% CaCl₂ (s.w. 14.8 ppg, yield 1.34 ft³/sx). Note: If lost circulation has occurred prior to running casing, add 200 sx Thixset cement for the lead slurry. Thixset cement blend: 200 sx Class "C" with 10# Cal Seal, 10# Gilsonite and 1/8# Poly-E-Flake (s.w. 14.2 ppg, yield 1.62 ft³/sx).
- 6. Install 11" x 3000 psi intermediate spool. NU 11" 3000 psi B.O.P.'s, hydril and choke manifold. WOC 12 hours. Install H_2S monitor equipment, escape packs and briefing stations.
- 7. Hydrotest BOP stack, choke manifold, kelly valves and floor safety valves to 3000 psig, annular preventer to 1500 psig and 180' of 8-5/8" casing to 2360 psig. RU PVT equipment.
- 8. RU mud logging unit.
- 9. Drill 8-3/4" hole to 6200' using 9 ppg cut brine. Increase viscosity and lower water loss to 20 cc as necessary to maintain hole.
- 10. Log well with CNL-LDT, DLL-MSFL. Run gyro and determine BHL.
- 11. TIH open ended to 6000' and spot 225 sx Class "H" cement with 0.75% CFR-3 (s.w. 17.5 ppg, yield 0.93 ft³/sx). TOH, PU 7-7/8" mill tooth bit, drill collars and TIH. WOC 24 hrs. Dress off cement plug to 50' above KOP (estimated KOP at 5364'). TOH.
- 12. RU Pathfinder Energy. RIW with bit and curve drilling assembly. Time drill off of kick off plug.
- 13. Drill curve section as per attached Pathfinder Energy Planning Report (12°/100' and 180° azimuth).
- 14. TOH with curve assembly, MWD and TIH with lateral assembly. Drill to measured depth of approximately 7569' with BHL of 2310' FNL and 1980' FWL at target depth as determined from Fasken Geologist.
- 15. Pump high vis. sweep and circulate hole clean at TD. Make short trip to KOP to check for fill.
- 16. POH and LD lateral assembly. RDMO Pathfinder Energy.
- 17. RU Halliburton loggers. PU "Toolpusher" drill pipe conveyed OH logging suite.

Brantley "7" No. 1 Recommended Procedure Page 2

- 18. TIH to approximately 5400' MD (50' into curve section, 2169' short of TD) and install side entry sub. Insert 2" spear (wet connect) and pump spear to top of tools and latch in.
- 19. Continue RIW while spooling wireline to toe of lateral at 7569' MDTD.
- 20. Log well from TD to approximately desired hole depth.
- 21. LD side entry sub. POW with wet connect. POW and LD "Toolpusher" logging suite. RDMO loggers.
- 22. PU 8-3/4" tricone bit and RIH to MDTD of 7569' for wiper trip. Circulate hole clean. POH LD DP.
- 23. Set 5-1/2" casing at TD. Cement casing in two stages with DV tool/inflatable packer at approximately 5000'. Install bowspring centralizers every other joint from KOP to TD'.
 - First Stage: 10 bfw, 500 gallons Mud Clean II, 10 bfw, estimated 600 sx Class "C" with 0.6% Halad-344, 0.3% Halad-322 and 0.2% Super CBL (s.w. 14.8 ppg, yield 1.32 ft³/sx)..
 - Second Stage: 400 sx BJ Lite with 1/4# celloflake and 5# salt (s.w. 12.7 ppg, yield 1.94 ft³/sx) plus 100 sx Class "C" neat (s.w. 14.8 ppg, yield 1.33 ft³/sx). Estimate cement volumes for TOC at 2200'.
- 24. Set slips, cut-off casing, ND BOP and NU 11" 3000# x 7-1/16" 3000# tubinghead and flowtree.
- 25. RDMO drilling rig.
- 26. Prepare location for completion.
- 27. Complete well as per recommended completion procedure.

TET/CSL (Brantley7No.1horzdrlgproc.doc)

FASKEN OIL AND RANCH, LTD.

303 W. WALL AVE.

SUITE 1800

MIDLAND, TEXAS 79701-5116

CONTINGENCY PLAN FOR HYDROGEN SULFIDE DISCHARGE

DRILLING OPERATIONS

CONTINGENCY PLAN FOR HYDROGEN SULFIDE DISCHARGE

DRILLING OPERATIONS

1. HYDROGEN SULFIDE PHYSICAL PROPERTIES AND TOXICITY - Hydrogen sulfide is extremely toxic. The acceptable concentration for eight-hour exposure is 20 ppm, which is .002% by volume. Hydrogen sulfide is heavier than air (specific gravity - 1.192) and is colorless. It forms an explosive mixture with air between 4.3 and 46.0 volume percent. Toxicity data for hydrogen sulfide and various gasses are compared in the table below.

Common Name	Chemical Formula	Sp. Gravity (Air =1)	Threshold Limit	Hazardous Limit	Lethal Conc.
Hydrogen Cyanide	HCN	0.94	10 ppm	150 ppm	300 ppm
Hydrogen Sulfide	H₂S	1.18	10 ppm * 20 ppm **	250 ppm/hr	600 ppm
Sulfur Dioxide	SO₂	2.21	5 ppm		1000 ppm
Chlorine	Cl_2	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	CO	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	CO ₂	1.52	5000 ppm	5%	10%
Methane	CH₄	0.55	9%	Combustabe above 5% in air	

^{*}Threshold Limit - concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects, 10 ppm = 1972 ACGIH concentration (American Conference of Governmental Industrial Hygienist).

^{**}Threshold Limit = 20 ppm - 1966 ANSI acceptable ceiling concentration for eight-hour exposure (based on a 40-hour week) per OSHA Rules and Regulations (Federal Register, Vol. 37, #202, Part II, dated October 18, 1972.

II. PHYSICAL EFFECTS OF HYDROGEN SULFIDE - The physiological effects of hydrogen sulfide are summarized in the table below.

	Concentration	
Percent Vol.	<u>ppm</u>	Physical Effects
0.001	10	obvious and unpleasant odor.
0.002	20	Safe for 8-hour exposure.
0.01	100	Kills smell in 3 to 15 minutes, may sting eyes and throat.
0.02	200	Kills smell shortly, stings eyes and throat.
0.05	500	Dizziness, breathing ceases in a few minutes, needs prompt artificial resuscitation.
0.07	700	Unconscious quickly, death will result if not rescued promptly.
0.10	1000	Unconscious at once, followed by death within minutes.

- III. ACCIDENTAL RELEASE OF HYDROGEN SULFIDE The possible release of hydrogen sulfide gas could result from leakage at either wellhead, flow lines, separators or drill string at this drilling location.
 - A. In the event of an accidental release, the tool pusher, supervisor or agent of the operator in the vicinity at the time of the discharge will be in charge of all activities on the ground and shall be responsible for the following.
 - 1. Notify all personnel, Company or outside, that are in the area to evacuate as soon as possible. This includes drilling rig crews, roustabout gangs, supervisory personnel, maintenance personnel, sales representatives, farm or ranch hands, visitors and all others that may be in the vicinity.
 - 2. Notify the County Sheriff's office, and the Department of Public Safety, and request their assistance to provide road blocks and direct traffic away from the drilling location. They should also be asked to assist in the evacuation of residents, if any, in affected area.
 - 3. Alert local Hospital and Fire Department in the event that medical services or ambulance assistance is needed.

- 4. Call the Operations Manager in the Midland Office and advise him of the nature and extent of the emergency situation.
- B. Operations Manager or his assistant will notify the appropriate state and federal agencies that the contingency plan has been activated and what level and type of reaction has already been initiated.
- C. Fasken's Senior Representative or employee on the scene will be in charge and shall initiate measures necessary to bring the gas flow under control securing whatever additional personnel and equipment are necessary to control the flow in the shortest time thereby reducing potential exposure of the general public to hydrogen sulfide.
- IV. WEATHER CONDITIONS During adverse weather conditions such as drizzle, rain, fog, calm winds, and snow, hydrogen sulfide collects in low lying areas. These areas should be avoided, any personnel in such areas should be evacuated, and law enforcement personnel should be requested to keep people and traffic from entering. Should moderate, undirectional winds be blowing hydrogen sulfide from the source of the discharge toward a populated area, residents and other personnel should be evacuated by law enforcement personnel who should then maintain an exclusion perimeter to avoid people from reentering the area until the emergency is over.
- V. TERMINATION OF EMERGENCY AND FOLLOW-UP PROCEDURES Fasken's Senior Representative or employee on the scene, with the cooperation of the Senior Law Enforcement Officer in whose jurisdiction the emergency occurred, will declare the emergency terminated when there is no further danger to oilfield personnel or general public. This will occur only after a sufficient number of gas measurements in the vicinity have been made by a qualified technician showing that hydrogen sulfide concentration is below the 20 ppm threshold. In addition, the Operator's Senior Representative or employee will perform the following duties connected with the emergency:
 - A. Notify all cooperating law enforcement agencies and emergency medial services that the emergency has been terminated.
 - B. Notify all evacuees that they may return safely to their residences or job sites.
 - C. Make an estimate of damages and/or expenses incurred in the control of the emergency, the evacuation of any persons and the destruction of property, if any, including domestic animals and livestock. He is to make an itemized list of all such damages and/or expenses along with their addresses, and any other specific information pertinent to the situation. He is to deliver this list to the Operations Manager as soon as possible.
 - D. <u>UNDER NO CIRCUMSTANCE</u> are damage estimates, names of affected personnel, if any, or any other information pertaining to the emergency to be given to the press. Public information regarding the emergency will be issued by headquarters office in Midland, Texas.
- VI. Copies of the Contingency Plan are available in Fasken's office in Midland, Texas.
- VII. This plan is subject to approval of the state and federal agencies and shall be revised as required.

