

Kaiser-Francis Oil Company

Project: Lea County, NM (NAD 83)
Site: Bell Lake Unit North
Well: 202H
Wellbore: OH
Design: Plan 1 05-03-18
Rig: Cactus 171



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: -0.43°
Magnetic North: 6.29°
Magnetic Field
Strength: 48092.3nT
Dip Angle: 60.06°
Date: 6/3/2018
Model: MVHD

RKB @ 3541.00usft (Cactus 171)

3518.00

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
BHL- Bell Lake Unit North 202H	10900.00	-8183.29	963.74	478463.51	789318.31	32° 18' 46.13888 N	103° 31' 50.28876 W
FTP - Bell Lake Unit North 202H	10900.00	-633.13	918.93	486013.67	789273.50	32° 20' 0.85048 N	103° 31' 50.16173 W

WELL DETAILS

+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.00	0.00	486646.80	788354.57	32° 20' 7.18327 N	103° 32' 0.81643 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diep	TFace	VSecl	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP, Begin 1.50°/100' Build
2	1450.00	0.00	0.00	1450.00	0.00	0.00	0.00	0.00	0.00	0.00	Hold 23.00° Inc at 93.76° Azm
3	2983.47	23.00	93.76	2942.81	-19.92	303.05	1.50	93.76	21.72	43.90	Begin 1.50°/100' Drop
4	3777.05	23.00	93.76	3673.09	-40.27	812.48	0.00	0.00	0.00	0.00	Begin Vertical Hold
5	5310.52	0.00	0.00	5165.70	-60.19	915.53	1.50	180.00	65.62	65.62	KOP2, Begin 10.00°/100' Build
6	10471.86	0.00	0.00	10327.04	-60.19	915.53	0.00	0.00	0.00	0.00	LP, Hold 90.00° Inc at 179.66° Azm
7	11371.86	90.00	179.66	10900.00	-633.14	918.93	10.00	179.66	638.58	638.58	TD at 18922.14
8	18922.14	90.00	179.66	10900.00	-8183.29	963.74	0.00	0.00	0.00	0.00	BHL- Bell Lake Unit North 202H

TVD	MD	Name	Size
1350.00	1350.00	13 3/8"	13-3/8
5200.00	5344.82	9 5/8"	9-5/8

LEGEND

- 101H, OH, Plan 1 05-03-18 VO
- Plan 1 05-03-18

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone

Local Origin: Well 202H, Grid North

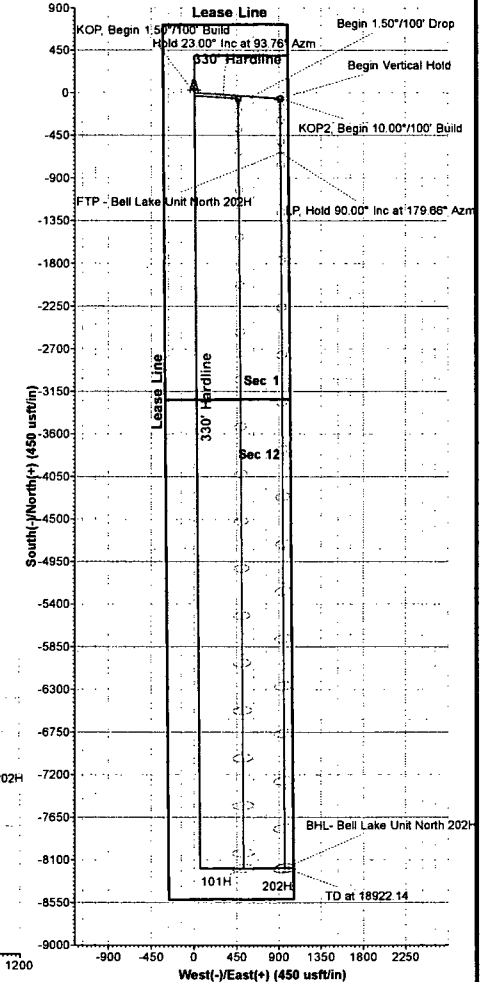
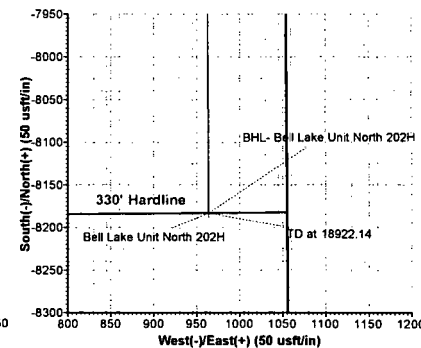
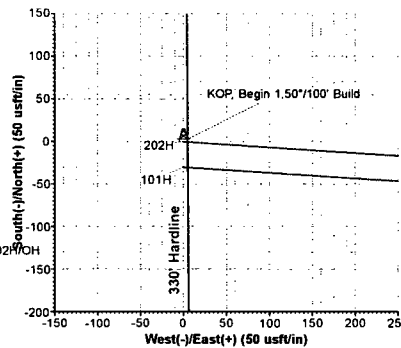
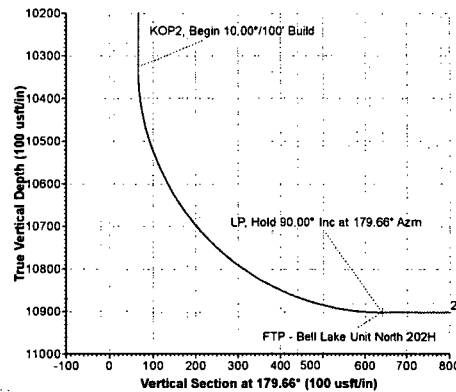
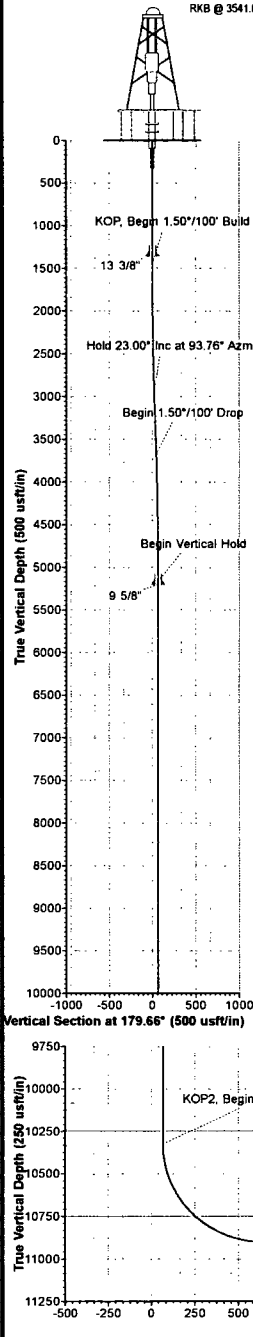
Latitude: 32° 20' 7.18327 N
Longitude: 103° 32' 0.81643 W

Grid East: 788354.57
Grid North: 486646.80
Scale Factor: 1.000

Geomagnetic Model: MVHD
Sample Date: 03-Jun-18
Magnetic Declination: 6.72°
Dip Angle from Horizontal: 60.06°
Magnetic Field Strength: 48092.28631948nT
To convert a Magnetic Direction to a Grid Direction, Add 6.29°
To convert a Magnetic Direction to a True Direction, Add 6.72° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

FORMATION TOP DETAILS

No formation data is available



30-025-45153

OCD – HOBBS
08/30/2018
RECEIVED

Kaiser-Francis Oil Company

**Lea County, NM (NAD 83)
Bell Lake Unit North
202H**

OH

Plan: Plan 1 05-03-18

Standard Planning Report

03 May, 2018



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 202H
Company:	Kaiser-Francis Oil Company	TVD Reference:	RKB @ 3541.00usft (Cactus 171)
Project:	Lea County, NM (NAD 83)	MD Reference:	RKB @ 3541.00usft (Cactus 171)
Site:	Bell Lake Unit North	North Reference:	Grid
Well:	202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 05-03-18		

Project	Lea County, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Bell Lake Unit North		
Site Position:		Northing:	486,616.80 usft
From:	Map	Easting:	788,354.75 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 20' 6.88640 N
		Longitude:	103° 32' 0.81690 W
		Grid Convergence:	0.43 °

Well	202H		
Well Position	+N/-S	30.00 usft	Northing: 486,646.80 usft
	+E/-W	-0.18 usft	Easting: 788,354.57 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32° 20' 7.18327 N
			Longitude: 103° 32' 0.81643 W
			Ground Level: 3,518.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	6/3/2018	6.72	60.06	48,092.28631948

Design	Plan 1 05-03-18				
Audit Notes:					
Version:	Phase:	PLAN		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.66	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,450.00	0.00	0.00	1,450.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,983.47	23.00	93.76	2,942.61	-19.92	303.05	1.50	1.50	0.00	93.76	
3,777.05	23.00	93.76	3,673.09	-40.27	612.48	0.00	0.00	0.00	0.00	
5,310.52	0.00	0.00	5,165.70	-60.19	915.53	1.50	-1.50	0.00	180.00	
10,471.86	0.00	0.00	10,327.04	-60.19	915.53	0.00	0.00	0.00	0.00	
11,371.86	90.00	179.66	10,900.00	-633.14	918.93	10.00	10.00	19.96	179.66	
18,922.14	90.00	179.66	10,900.00	-8,183.29	963.74	0.00	0.00	0.00	0.00	BHL- Bell Lake Unit

Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 202H
Company:	Kaiser-Francis Oil Company	TVD Reference:	RKB @ 3541.00usft (Cactus 171)
Project:	Lea County, NM (NAD 83)	MD Reference:	RKB @ 3541.00usft (Cactus 171)
Site:	Bell Lake Unit North	North Reference:	Grid
Well:	202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 05-03-18		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,450.00	0.00	0.00	1,450.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 1.50°/100' Build									
1,500.00	0.75	93.76	1,500.00	-0.02	0.33	0.02	1.50	1.50	0.00
1,600.00	2.25	93.76	1,599.96	-0.19	2.94	0.21	1.50	1.50	0.00
1,700.00	3.75	93.76	1,699.82	-0.54	8.16	0.58	1.50	1.50	0.00
1,800.00	5.25	93.76	1,799.51	-1.05	15.99	1.15	1.50	1.50	0.00
1,900.00	6.75	93.76	1,898.96	-1.74	26.42	1.89	1.50	1.50	0.00
2,000.00	8.25	93.76	1,998.10	-2.59	39.44	2.83	1.50	1.50	0.00
2,100.00	9.75	93.76	2,096.87	-3.62	55.05	3.95	1.50	1.50	0.00
2,200.00	11.25	93.76	2,195.19	-4.81	73.24	5.25	1.50	1.50	0.00
2,300.00	12.75	93.76	2,293.00	-6.18	93.98	6.74	1.50	1.50	0.00
2,400.00	14.25	93.76	2,390.24	-7.71	117.28	8.41	1.50	1.50	0.00
2,500.00	15.75	93.76	2,486.83	-9.41	143.10	10.26	1.50	1.50	0.00
2,600.00	17.25	93.76	2,582.71	-11.27	171.44	12.29	1.50	1.50	0.00
2,700.00	18.75	93.76	2,677.81	-13.30	202.28	14.50	1.50	1.50	0.00
2,800.00	20.25	93.76	2,772.07	-15.49	235.58	16.89	1.50	1.50	0.00
2,900.00	21.75	93.76	2,865.43	-17.84	271.34	19.45	1.50	1.50	0.00
2,983.47	23.00	93.76	2,942.61	-19.92	303.05	21.72	1.50	1.50	0.00
Hold 23.00° Inc at 93.76° Azm									
3,000.00	23.00	93.76	2,957.82	-20.35	309.49	22.18	0.00	0.00	0.00
3,100.00	23.00	93.76	3,049.87	-22.91	348.49	24.98	0.00	0.00	0.00
3,200.00	23.00	93.76	3,141.92	-25.47	387.48	27.77	0.00	0.00	0.00
3,300.00	23.00	93.76	3,233.97	-28.04	426.47	30.57	0.00	0.00	0.00
3,400.00	23.00	93.76	3,326.02	-30.60	465.46	33.36	0.00	0.00	0.00
3,500.00	23.00	93.76	3,418.07	-33.16	504.45	36.16	0.00	0.00	0.00
3,600.00	23.00	93.76	3,510.12	-35.73	543.45	38.95	0.00	0.00	0.00
3,700.00	23.00	93.76	3,602.17	-38.29	582.44	41.75	0.00	0.00	0.00
3,777.05	23.00	93.76	3,673.09	-40.27	612.48	43.90	0.00	0.00	0.00
Begin 1.50°/100' Drop									
3,800.00	22.66	93.76	3,694.24	-40.85	621.37	44.54	1.50	-1.50	0.00
3,900.00	21.16	93.76	3,787.02	-43.30	658.60	47.21	1.50	-1.50	0.00
4,000.00	19.66	93.76	3,880.74	-45.59	693.39	49.70	1.50	-1.50	0.00
4,100.00	18.16	93.76	3,975.34	-47.71	725.73	52.02	1.50	-1.50	0.00
4,200.00	16.66	93.76	4,070.76	-49.67	755.58	54.16	1.50	-1.50	0.00
4,300.00	15.16	93.76	4,166.93	-51.47	782.93	56.12	1.50	-1.50	0.00
4,400.00	13.66	93.76	4,263.78	-53.10	807.75	57.90	1.50	-1.50	0.00
4,500.00	12.16	93.76	4,361.25	-54.57	830.04	59.49	1.50	-1.50	0.00
4,600.00	10.66	93.76	4,459.27	-55.87	849.78	60.91	1.50	-1.50	0.00
4,700.00	9.16	93.76	4,557.78	-57.00	866.95	62.14	1.50	-1.50	0.00
4,800.00	7.66	93.76	4,656.70	-57.96	881.54	63.19	1.50	-1.50	0.00
4,900.00	6.16	93.76	4,755.97	-58.74	893.54	64.05	1.50	-1.50	0.00
5,000.00	4.66	93.76	4,855.52	-59.36	902.94	64.72	1.50	-1.50	0.00
5,100.00	3.16	93.76	4,955.29	-59.81	909.74	65.21	1.50	-1.50	0.00
5,200.00	1.66	93.76	5,055.20	-60.09	913.93	65.51	1.50	-1.50	0.00
5,300.00	0.16	93.76	5,155.18	-60.19	915.52	65.62	1.50	-1.50	0.00
5,310.52	0.00	0.00	5,165.70	-60.19	915.53	65.62	1.50	-1.50	0.00
Begin Vertical Hold									
10,471.86	0.00	0.00	10,327.04	-60.19	915.53	65.62	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
10,500.00	2.81	179.66	10,355.17	-60.88	915.53	66.31	10.00	10.00	0.00
10,600.00	12.81	179.66	10,454.12	-74.46	915.61	79.89	10.00	10.00	0.00
10,700.00	22.81	179.66	10,549.20	-105.01	915.80	110.45	10.00	10.00	0.00
10,800.00	32.81	179.66	10,637.53	-151.61	916.07	157.05	10.00	10.00	0.00

Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 202H
Company:	Kaiser-Francis Oil Company	TVD Reference:	RKB @ 3541.00usft (Cactus 171)
Project:	Lea County, NM (NAD 83)	MD Reference:	RKB @ 3541.00usft (Cactus 171)
Site:	Bell Lake Unit North	North Reference:	Grid
Well:	202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 05-03-18		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,900.00	42.81	179.66	10,716.43	-212.84	916.44	218.28	10.00	10.00	0.00
11,000.00	52.81	179.66	10,783.50	-286.85	916.88	292.28	10.00	10.00	0.00
11,100.00	62.81	179.66	10,836.70	-371.37	917.38	376.81	10.00	10.00	0.00
11,200.00	72.81	179.66	10,874.42	-463.85	917.93	469.29	10.00	10.00	0.00
11,300.00	82.81	179.66	10,895.50	-561.47	918.50	566.91	10.00	10.00	0.00
11,371.86	90.00	179.66	10,900.00	-633.14	918.93	638.58	10.00	10.00	0.00
LP, Hold 90.00° Inc at 179.66° Azm									
11,400.00	90.00	179.66	10,900.00	-661.28	919.10	666.72	0.00	0.00	0.00
11,500.00	90.00	179.66	10,900.00	-761.28	919.69	766.72	0.00	0.00	0.00
11,600.00	90.00	179.66	10,900.00	-861.27	920.28	866.72	0.00	0.00	0.00
11,700.00	90.00	179.66	10,900.00	-961.27	920.88	966.72	0.00	0.00	0.00
11,800.00	90.00	179.66	10,900.00	-1,061.27	921.47	1,066.72	0.00	0.00	0.00
11,900.00	90.00	179.66	10,900.00	-1,161.27	922.06	1,166.72	0.00	0.00	0.00
12,000.00	90.00	179.66	10,900.00	-1,261.27	922.66	1,266.72	0.00	0.00	0.00
12,100.00	90.00	179.66	10,900.00	-1,361.27	923.25	1,366.72	0.00	0.00	0.00
12,200.00	90.00	179.66	10,900.00	-1,461.26	923.84	1,466.72	0.00	0.00	0.00
12,300.00	90.00	179.66	10,900.00	-1,561.26	924.44	1,566.72	0.00	0.00	0.00
12,400.00	90.00	179.66	10,900.00	-1,661.26	925.03	1,666.72	0.00	0.00	0.00
12,500.00	90.00	179.66	10,900.00	-1,761.26	925.63	1,766.72	0.00	0.00	0.00
12,600.00	90.00	179.66	10,900.00	-1,861.26	926.22	1,866.72	0.00	0.00	0.00
12,700.00	90.00	179.66	10,900.00	-1,961.26	926.81	1,966.72	0.00	0.00	0.00
12,800.00	90.00	179.66	10,900.00	-2,061.25	927.41	2,066.72	0.00	0.00	0.00
12,900.00	90.00	179.66	10,900.00	-2,161.25	928.00	2,166.72	0.00	0.00	0.00
13,000.00	90.00	179.66	10,900.00	-2,261.25	928.59	2,266.72	0.00	0.00	0.00
13,100.00	90.00	179.66	10,900.00	-2,361.25	929.19	2,366.72	0.00	0.00	0.00
13,200.00	90.00	179.66	10,900.00	-2,461.25	929.78	2,466.72	0.00	0.00	0.00
13,300.00	90.00	179.66	10,900.00	-2,561.24	930.37	2,566.72	0.00	0.00	0.00
13,400.00	90.00	179.66	10,900.00	-2,661.24	930.97	2,666.72	0.00	0.00	0.00
13,500.00	90.00	179.66	10,900.00	-2,761.24	931.56	2,766.72	0.00	0.00	0.00
13,600.00	90.00	179.66	10,900.00	-2,861.24	932.15	2,866.72	0.00	0.00	0.00
13,700.00	90.00	179.66	10,900.00	-2,961.24	932.75	2,966.72	0.00	0.00	0.00
13,800.00	90.00	179.66	10,900.00	-3,061.24	933.34	3,066.72	0.00	0.00	0.00
13,900.00	90.00	179.66	10,900.00	-3,161.23	933.93	3,166.72	0.00	0.00	0.00
14,000.00	90.00	179.66	10,900.00	-3,261.23	934.53	3,266.72	0.00	0.00	0.00
14,100.00	90.00	179.66	10,900.00	-3,361.23	935.12	3,366.72	0.00	0.00	0.00
14,200.00	90.00	179.66	10,900.00	-3,461.23	935.71	3,466.72	0.00	0.00	0.00
14,300.00	90.00	179.66	10,900.00	-3,561.23	936.31	3,566.72	0.00	0.00	0.00
14,400.00	90.00	179.66	10,900.00	-3,661.23	936.90	3,666.72	0.00	0.00	0.00
14,500.00	90.00	179.66	10,900.00	-3,761.22	937.49	3,766.72	0.00	0.00	0.00
14,600.00	90.00	179.66	10,900.00	-3,861.22	938.09	3,866.72	0.00	0.00	0.00
14,700.00	90.00	179.66	10,900.00	-3,961.22	938.68	3,966.72	0.00	0.00	0.00
14,800.00	90.00	179.66	10,900.00	-4,061.22	939.27	4,066.72	0.00	0.00	0.00
14,900.00	90.00	179.66	10,900.00	-4,161.22	939.87	4,166.72	0.00	0.00	0.00
15,000.00	90.00	179.66	10,900.00	-4,261.21	940.46	4,266.72	0.00	0.00	0.00
15,100.00	90.00	179.66	10,900.00	-4,361.21	941.05	4,366.72	0.00	0.00	0.00
15,200.00	90.00	179.66	10,900.00	-4,461.21	941.65	4,466.72	0.00	0.00	0.00
15,300.00	90.00	179.66	10,900.00	-4,561.21	942.24	4,566.72	0.00	0.00	0.00
15,400.00	90.00	179.66	10,900.00	-4,661.21	942.83	4,666.72	0.00	0.00	0.00
15,500.00	90.00	179.66	10,900.00	-4,761.21	943.43	4,766.72	0.00	0.00	0.00
15,600.00	90.00	179.66	10,900.00	-4,861.20	944.02	4,866.72	0.00	0.00	0.00
15,700.00	90.00	179.66	10,900.00	-4,961.20	944.62	4,966.72	0.00	0.00	0.00
15,800.00	90.00	179.66	10,900.00	-5,061.20	945.21	5,066.72	0.00	0.00	0.00
15,900.00	90.00	179.66	10,900.00	-5,161.20	945.80	5,166.72	0.00	0.00	0.00

Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 202H
Company:	Kaiser-Francis Oil Company	TVD Reference:	RKB @ 3541.00usft (Cactus 171)
Project:	Lea County, NM (NAD 83)	MD Reference:	RKB @ 3541.00usft (Cactus 171)
Site:	Bell Lake Unit North	North Reference:	Grid
Well:	202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 05-03-18		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,000.00	90.00	179.66	10,900.00	-5,261.20	946.40	5,266.72	0.00	0.00	0.00
16,100.00	90.00	179.66	10,900.00	-5,361.20	946.99	5,366.72	0.00	0.00	0.00
16,200.00	90.00	179.66	10,900.00	-5,461.19	947.58	5,466.72	0.00	0.00	0.00
16,300.00	90.00	179.66	10,900.00	-5,561.19	948.18	5,566.72	0.00	0.00	0.00
16,400.00	90.00	179.66	10,900.00	-5,661.19	948.77	5,666.72	0.00	0.00	0.00
16,500.00	90.00	179.66	10,900.00	-5,761.19	949.36	5,766.72	0.00	0.00	0.00
16,600.00	90.00	179.66	10,900.00	-5,861.19	949.96	5,866.72	0.00	0.00	0.00
16,700.00	90.00	179.66	10,900.00	-5,961.19	950.55	5,966.72	0.00	0.00	0.00
16,800.00	90.00	179.66	10,900.00	-6,061.18	951.14	6,066.72	0.00	0.00	0.00
16,900.00	90.00	179.66	10,900.00	-6,161.18	951.74	6,166.72	0.00	0.00	0.00
17,000.00	90.00	179.66	10,900.00	-6,261.18	952.33	6,266.72	0.00	0.00	0.00
17,100.00	90.00	179.66	10,900.00	-6,361.18	952.92	6,366.72	0.00	0.00	0.00
17,200.00	90.00	179.66	10,900.00	-6,461.18	953.52	6,466.72	0.00	0.00	0.00
17,300.00	90.00	179.66	10,900.00	-6,561.17	954.11	6,566.72	0.00	0.00	0.00
17,400.00	90.00	179.66	10,900.00	-6,661.17	954.70	6,666.72	0.00	0.00	0.00
17,500.00	90.00	179.66	10,900.00	-6,761.17	955.30	6,766.72	0.00	0.00	0.00
17,600.00	90.00	179.66	10,900.00	-6,861.17	955.89	6,866.72	0.00	0.00	0.00
17,700.00	90.00	179.66	10,900.00	-6,961.17	956.48	6,966.72	0.00	0.00	0.00
17,800.00	90.00	179.66	10,900.00	-7,061.17	957.08	7,066.72	0.00	0.00	0.00
17,900.00	90.00	179.66	10,900.00	-7,161.16	957.67	7,166.72	0.00	0.00	0.00
18,000.00	90.00	179.66	10,900.00	-7,261.16	958.26	7,266.72	0.00	0.00	0.00
18,100.00	90.00	179.66	10,900.00	-7,361.16	958.86	7,366.72	0.00	0.00	0.00
18,200.00	90.00	179.66	10,900.00	-7,461.16	959.45	7,466.72	0.00	0.00	0.00
18,300.00	90.00	179.66	10,900.00	-7,561.16	960.04	7,566.72	0.00	0.00	0.00
18,400.00	90.00	179.66	10,900.00	-7,661.16	960.64	7,666.72	0.00	0.00	0.00
18,500.00	90.00	179.66	10,900.00	-7,761.15	961.23	7,766.72	0.00	0.00	0.00
18,600.00	90.00	179.66	10,900.00	-7,861.15	961.82	7,866.72	0.00	0.00	0.00
18,700.00	90.00	179.66	10,900.00	-7,961.15	962.42	7,966.72	0.00	0.00	0.00
18,800.00	90.00	179.66	10,900.00	-8,061.15	963.01	8,066.72	0.00	0.00	0.00
18,900.00	90.00	179.66	10,900.00	-8,161.15	963.61	8,166.72	0.00	0.00	0.00
18,922.14	90.00	179.66	10,900.00	-8,183.29	963.74	8,188.86	0.00	0.00	0.00
TD at 18922.14									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - Bell Lake Unit N - hit/miss target - Shape - Point	0.00	0.00	10,900.00	-633.13	918.93	486,013.67	789,273.50	32° 20' 0.85048 N	03° 31' 50.16173 W
BHL - Bell Lake Unit N - plan hits target center - Point	0.00	0.00	10,900.00	-8,183.29	963.74	478,463.51	789,318.30	32° 18' 46.13886 N	03° 31' 50.29876 W

Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 202H
Company:	Kaiser-Francis Oil Company	TVD Reference:	RKB @ 3541.00usft (Cactus 171)
Project:	Lea County, NM (NAD 83)	MD Reference:	RKB @ 3541.00usft (Cactus 171)
Site:	Bell Lake Unit North	North Reference:	Grid
Well:	202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 05-03-18		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,350.00	1,350.00	13 3/8"	13-3/8	17-1/2	
5,344.82	5,200.00	9 5/8"	9-5/8	12-1/4	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,450.00	1,450.00	0.00	0.00	KOP, Begin 1.50°/100' Build	
2,983.47	2,942.61	-19.92	303.05	Hold 23.00° Inc at 93.76° Azm	
3,777.05	3,673.09	-40.27	612.48	Begin 1.50°/100' Drop	
5,310.52	5,165.70	-60.19	915.53	Begin Vertical Hold	
10,471.86	10,327.04	-60.19	915.53	KOP2, Begin 10.00°/100' Build	
11,371.86	10,900.00	-633.14	918.93	LP, Hold 90.00° Inc at 179.66° Azm	
18,922.14	10,900.00	-8,183.29	963.74	TD at 18922.14	



GATES E & S NORTH AMERICA, INC.
7603 Prairie Oak Dr.
Houston, TX 77086

PHONE: 281-602-4119
FAX:
EMAIL: Troy.Schmidt@gat
WEB: www.gates.com

10K ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	10/3/2017
Customer Ref. :	4086301	Hose Serial No.:	H-100317-2
Invoice No. :	508588	Created By:	Irene Pizana

Product Description:	10K3.035.0CM4.1/16FLGE/E		
End Fitting 1 :	4 -1/16 10K FLANGE - FIXED	End Fitting 2 :	4 -1/16 10K FLANGE - FLOATING
Gates Part No. :	68603010-9710398	Assembly Code :	L39789092117H-100317-2
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has successfully passed all pressure testing requirements set forth in Section 9.7.7 and Table 10 of API 7K, Sixth Edition (December 2015).

Quality:	QUALITY
Date :	10/3/2017
Signature :	

Production:	PRODUCTION
Date :	10/3/2017
Signature :	

Form PTC - 01 Rev.0 2





POWERING PROGRESS™

Gates E&S North America, Inc.
7603 Prairie Oak Dr.
Houston, TX. 77086
PHONE :
FAX:
Troy.Schmidt@gates.com

CERTIFICATE OF CONFORMANCE

This is to verify that all Parts and/or Materials included in this shipment have been manufactured and/or processed in Conformance with applicable drawings and specifications, and that Records of Required Tests are on file and subject to examination. The following items were assembled at **Gates E & S, North America Inc.**, facilities in Houston, TX, USA. This hose assembly was designed and manufactured to meet requirements of API Spec 7K.

CUSTOMER: A-7 AUSTIN INC DBA AUSTIN HOSE
CUSTOMERS P.O.#: 4086301
PART DESCRIPTION: 10K3.035.0CM4.1/16FLGE/E
SALES ORDER #: 508588
QUANTITY: 1
SERIAL #: H-100317-2

SIGNATURE: _____

TITLE: _____

QUALITY ASSURANCE

DATE: _____

10/3/2017



JOB REPORT

COMPANY DETAILS

Company: Austin

Email: Irene.pizana@gates.com

Contact:

Phone:

JOB DETAILS

DATE October 03, 2017

START TIME 10:38:29

Length: 35'

END TIME 11:00:25

Inner Diameter: 3.0"

Gates Rep: Chris Olivo

Pressure Test: Pass

Recommendation: H-100317-2

Internal Inspection: N/A

Working Pressure: 10000

Fitting Type: 10K Flange ExE

Ext Inspection: Pass

Fitting Inspection: Pass

Test pressure: 15000

Serial No: H-100317-2



SUMMARY GRAPH

