

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
PETERSON 7 IL FED COM 1H
EDDY

041-0108

STATE OF NEW MEXICO
DEVIATION REPORT

30-015-40945

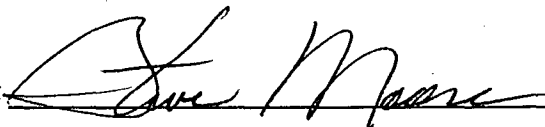
362	2.50
480	3.20
596	3.18
721	2.08
847	2.24
971	1.22
1,258	0.50



Received

APR 01 2013

Mewbourne Oil Company
Hobbs

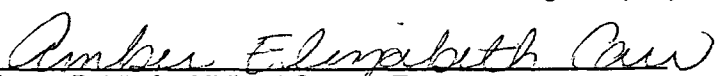
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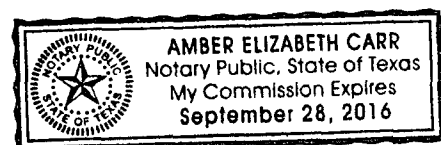
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on
Steve Moore on behalf of Patterson-UTi Drilling Company LLC.

3/26/13, by


Notary Public for Midland County, Texas
My Commission Expires:





SURVEY CALCULATION PROGRAM

v1.00.02

OPERATOR:	Mewbourne	Supervisors:								
WELL:	Peterson 7 IL Fed Com #1H	Cody Berryman								
LOCATION:	Eddy CO New Mexico									
JOB NUMBER:	WL-13227									
COMMENTS:										
Displacement @ 2111 Equals 49.74 feet @ 292.72		MAG DEC. (-/+)								
		GRID CORR. (-/+)								
		TOTAL CORR. (-/+)								
DATE: 3/19/2013	TIME:									
MINIMUM CURVATURE CALCULATIONS(SPE-3362)		PROPOSED DIRECTION	TARGET TRACKING TO CENTER							
SVY NUM	MD	INC	AZM	TVD	SECT	N-S	E-W	DLS/ 100	ABOVE(+) BELOW(-)	RIGHT(+) LEFT(-)

TIE	0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
1	100	1.30	16.20	99.99	1.09	1.09	0.32	1.3	-100.0	0.3
2	200	2.02	328.72	199.95	3.69	3.69	-0.28	1.5	-200.0	-0.3
3	300	2.67	313.20	299.87	6.79	6.79	-2.90	0.9	-299.9	-2.9
4	400	2.99	304.45	399.75	9.86	9.86	-6.74	0.5	-399.7	-6.7
5	500	2.51	296.31	499.63	12.30	12.30	-10.86	0.6	-499.6	-10.9
6	600	2.39	285.78	599.54	13.84	13.84	-14.83	0.5	-599.5	-14.8
7	700	2.56	278.34	699.45	14.73	14.73	-19.04	0.4	-699.4	-19.0
8	800	2.74	269.58	799.34	15.04	15.04	-23.64	0.4	-799.3	-23.6
9	900	1.49	258.43	899.27	14.76	14.76	-27.31	1.3	-899.3	-27.3
10	1000	1.14	280.13	999.25	14.67	14.67	-29.56	0.6	-999.2	-29.6
11	1100	1.28	271.13	1099.22	14.87	14.87	-31.66	0.2	-1099.2	-31.7
12	1200	0.72	279.12	1199.21	14.99	14.99	-33.39	0.6	-1199.2	-33.4
13	1300	0.95	291.46	1299.20	15.39	15.39	-34.78	0.3	-1299.2	-34.8
14	1400	1.32	288.07	1399.18	16.05	16.05	-36.65	0.4	-1399.2	-36.7
15	1500.0	0.92	299.36	1499.16	16.81	16.81	-38.45	0.5	-1499.2	-38.4
16	1600.0	0.96	276.38	1599.15	17.29	17.29	-39.98	0.4	-1599.1	-40.0
17	1700.0	0.99	303.93	1699.13	17.87	17.87	-41.53	0.5	-1699.1	-41.5
18	1800.0	0.61	302.50	1799.12	18.64	18.64	-42.69	0.4	-1799.1	-42.7
19	1900.0	0.63	270.64	1899.12	18.93	18.93	-43.69	0.3	-1899.1	-43.7
20	2000.0	0.61	284.19	1999.11	19.06	19.06	-44.76	0.1	-1999.1	-44.8
21	2100.0	0.58	272.09	2099.11	19.21	19.21	-45.78	0.1	-2099.1	-45.8
22	2111.0	0.48	260.40	2110.11	19.21	19.21	-45.88	1.3	-2110.1	-45.9

Mewbourne Oil Co

Eddy County, New Mexico

Sec 8, T18S, R27E

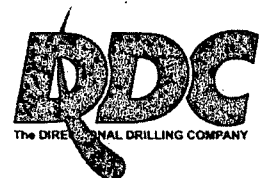
Peterson 7 IL Federal Com #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

01 April, 2013



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Peterson 7 IL Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3400.0usft (Patterson #41)
Site:	Sec 8, T18S, R27E	MD Reference:	WELL @ 3400.0usft (Patterson #41)
Well:	Peterson 7 IL Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 8, T18S, R27E		
Site Position:		Northing:	640,151.35 usft
From:	Map	Easting:	507,742.98 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 45' 35.520 N
		Longitude:	104° 18' 29.324 W
		Grid Convergence:	0.01 °

Well	Peterson 7 IL Federal Com #1H		
Well Position	+N-S	0.0 usft	Northing: 640,151.35 usft
	+E-W	0.0 usft	Easting: 507,742.98 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 45' 35.520 N
		Longitude:	104° 18' 29.324 W
		Ground Level:	3,381.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	3/13/2013	(°)
			7.75
			Dip Angle (°)
			60.51
			Field Strength (nT)
			48,683

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			270.94

Survey Program	Date 4/1/2013		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.0	2,111.0	Gyro (Wellbore #1)	Good_gyro
2,221.0	7,625.0	MWD (Wellbore #1)	MWD default
			Description
			Good Gyro
			MWD - Standard

Survey										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(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	1.30	16.20	100.0	1.1	0.3	-0.3	1.30	1.30	0.00	
200.0	2.02	328.72	200.0	3.7	-0.3	0.3	1.49	0.72	-47.48	
300.0	2.67	313.20	299.9	6.8	-2.9	3.0	0.90	0.65	-15.52	
400.0	2.99	304.45	399.7	9.9	-6.7	6.9	0.54	0.32	-8.75	
500.0	2.51	296.31	499.6	12.3	-10.9	11.1	0.62	-0.48	-8.14	
600.0	2.39	285.78	599.5	13.8	-14.8	15.1	0.47	-0.12	-10.53	
700.0	2.56	278.34	699.4	14.7	-19.0	19.3	0.36	0.17	-7.44	
800.0	2.74	269.58	799.3	15.0	-23.6	23.9	0.44	0.18	-8.76	
900.0	1.49	258.43	899.3	14.8	-27.3	27.5	1.31	-1.25	-11.15	

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Peterson 7 IL Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3400.0usft (Patterson #41)
Site:	Sec 8, T18S, R27E	MD Reference:	WELL @ 3400.0usft (Patterson #41)
Well:	Peterson 7 IL Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
6,479.0	92.30	271.10	2,676.6	66.2	-3,995.1	3,995.6	0.11	0.11	0.00
6,573.0	91.80	270.40	2,673.2	67.5	-4,089.0	4,089.6	0.91	-0.53	-0.74
6,668.0	90.90	269.10	2,671.0	67.1	-4,184.0	4,184.5	1.66	-0.95	-1.37
6,763.0	91.00	269.00	2,669.4	65.5	-4,279.0	4,279.5	0.15	0.11	-0.11
6,857.0	92.30	271.20	2,666.7	65.6	-4,372.9	4,373.4	2.72	1.38	2.34
6,952.0	91.80	270.50	2,663.3	67.0	-4,467.8	4,468.3	0.91	-0.53	-0.74
7,047.0	91.60	270.00	2,660.5	67.5	-4,562.8	4,563.3	0.57	-0.21	-0.53
7,142.0	91.40	271.60	2,658.0	68.8	-4,657.8	4,658.3	1.70	-0.21	1.68
7,236.0	90.50	270.40	2,656.5	70.4	-4,751.7	4,752.2	1.60	-0.96	-1.28
7,331.0	90.70	271.90	2,655.5	72.3	-4,846.7	4,847.2	1.59	0.21	1.58
7,426.0	90.70	271.60	2,654.3	75.2	-4,941.6	4,942.2	0.32	0.00	-0.32
7,521.0	90.20	271.60	2,653.6	77.9	-5,036.6	5,037.2	0.53	-0.53	0.00
7,575.0	90.10	271.60	2,653.4	79.4	-5,090.6	5,091.2	0.19	-0.19	0.00
TD @ 7625' MD / 2653.3' TVD									
7,625.0	90.10	271.60	2,653.3	80.8	-5,140.6	5,141.2	0.00	0.00	0.00

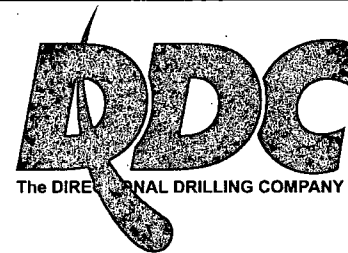
Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,111.0	2,110.1	19.2	-45.9	TIE IN @ 2111' MD / 2110.1' TVD
2,560.0	2,536.9	15.4	-148.5	CROSSED LEASE LINE @ 2560' MD / 2536.9' TVD
2,962.0	2,744.1	19.4	-480.6	CROSSED HARDLINE @ 2962' MD / 2744.1' TVD
7,625.0	2,653.3	80.8	-5,140.6	TD @ 7625' MD / 2653.3' TVD

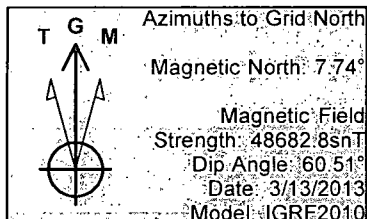
Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
 Peterson 7 IL Federal Com #1H
 Eddy County, New Mexico
 Rig: Patterson #41
 Created By: TIFFANI MIZELL
 Date: 4/1/2013

Peterson 7 IL Federal Com #1H
 Eddy County, New Mexico
 Q130028 & WT-13218
 Design #2



Mewbourne Oil Company



PROJECT DETAILS: Eddy County, New Mexico

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

WELL DETAILS: Peterson 7 IL Federal Com #1H

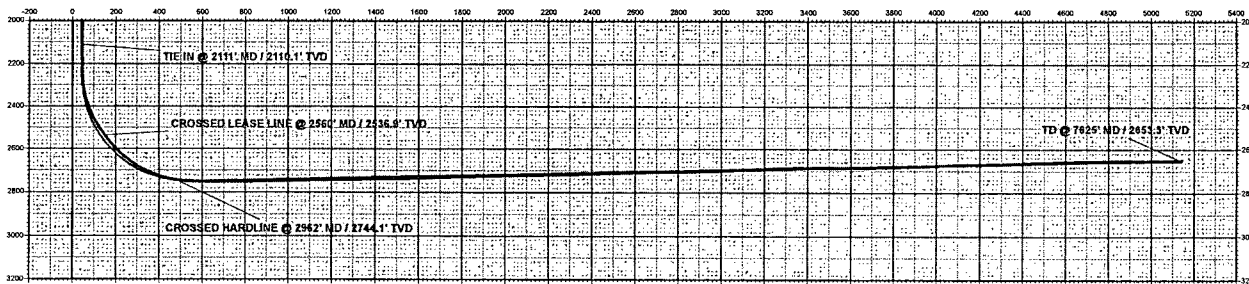
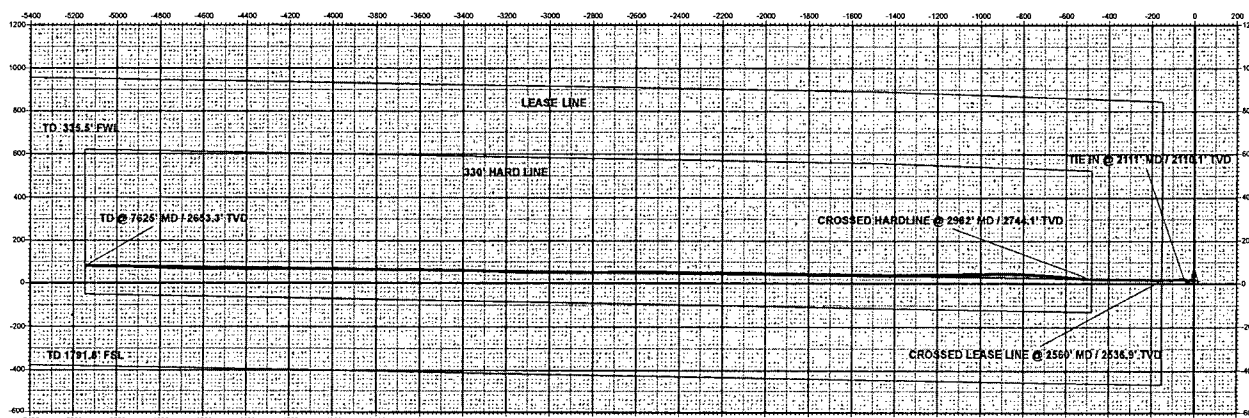
		Ground Level:		3381.0		
+N/-S	+E/-W	Northings	Easting	Latitude	Longitude	
0.0	0.0	640161.35	607742.98	32° 45' 35.520 N	104° 18' 29.324 W	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northings	Easting	Latitude	Longitude
PBHL Peterson 7 IL Federal Com #1H Design #1 -plan hits target center	2648.0	84.2	-5148.0	640235.52	502596.95	32° 45' 36.361 N	104° 19' 23.568 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	V.Sect	Departure	Annotation
2111.0	0.48	265.40	2116.1	19.2	-45.9	48.2	54.4	TIE IN @ 2111' MD / 2116.1' TVD
2860.0	35.87	270.05	2536.9	15.4	-148.5	148.8	157.4	CROSSED LEASE LINE @ 2560' MD / 2536.9' TVD
2962.0	81.75	273.00	2744.1	19.4	-480.6	480.8	489.4	CROSSED HARDLINE @ 2962' MD / 2744.1' TVD
7625.0	90.10	271.60	2653.3	80.8	-5148.0	5141.2	5150.8	TD @ 7625' MD / 2653.3' TVD



Vertical Section at 270.94° (200 usf/in)

Operating Company Mewbourne
Well Name & Number 7 IL Fed Com #1H
Sales Ticket Number 5403011
Date 3/29/2013

Company Rep Travis Ingram
Field Peterson
BOT Service Rep Joseph Haynes
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	3,057.00	9,960	6,230
Top Liner	4.500	11.60	55000	4.000	3.875	LT&C	0.01554	4,697.15	5,230	4,680
Bott Liner										

TVD	2,653.00	KOP	2,255.00	Open Hole	6.125	Casing Vol. (bbl)	108.0
Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)				Max Drill Out Size	3.625

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ (BBL)
Liner Top	1	10292414	JR Setting Sleeve_RH Profile	2821.85	4.00	5.750	4.000			108

Zone Length											
	H4090400008	JR Sleeve_S3Hyd/Set Packer	2825.85	4.59	5.875	3.875		1670			
	10825400	4-1/2-13.5 LTC Nipple	2830.44	6.06	4.500	4.000					
		6 Joints of 4-1/2-11.6 LTC Casing	2836.50	255.72	4.500	4.000					
20	H809870074	3.625 EX/Frac Sleeve	3092.22	3.90	5.750		3.625	1524		112	
		3 Joints of 4-1/2-11.6 LTC Casing	3096.12	127.91	4.500	3.920					
	H409360008	Baker Open Hole Packer	3224.03	3.89	5.820	3.875		2154			
		2 Joints of 4-1/2-11.6 LTC Casing	3227.92	85.28	4.500	3.920					
19	H809870016	3.500 EX/Frac Sleeve	3313.20	3.90	5.750		3.400	1524		188	
		2 Joints of 4-1/2-11.6 LTC Casing	3317.10	85.30	4.500	3.920					
	H409360008	Baker Open Hole Packer	3402.40	3.89	5.820	3.875		2154			
		2 Joints of 4-1/2-11.6 LTC Casing	3406.29	85.25	4.500	3.920					
18	H809870073	3.375 EX/Frac Sleeve	3491.54	3.90	5.750		3.275	1524		190	
		3 Joints of 4-1/2-11.6 LTC Casing	3495.44	127.84	4.500	3.920					
	H409360008	Baker Open Hole Packer	3623.28	3.89	5.820	3.875		2154			
		2 Joints of 4-1/2-11.6 LTC Casing	3627.17	85.25	4.500	3.920					
17	H809870072	3.250 EX/Frac Sleeve	3712.42	3.90	5.750		3.150	1524		194	
		2 Joints of 4-1/2-11.6 LTC Casing	3716.32	85.20	4.500	3.920					
	H409360008	Baker Open Hole Packer	3801.52	3.89	5.820	3.875		2154			
		2 Joints of 4-1/2-11.6 LTC Casing	3805.41	85.28	4.500	3.920					
16	H809870070	3.125 EX/Frac Sleeve	3890.69	3.90	5.750		3.025	1524		197	
		2 Joints of 4-1/2-11.6 LTC Casing	3894.59	85.24	4.500	3.920					
	H409360008	Baker Open Hole Packer	3979.83	3.89	5.820	3.875		2154			
		3 Joints of 4-1/2-11.6 LTC Casing	3983.72	127.48	4.500	3.920					

Operating Company Mewbourne
Well Name & Number 7 IL Fed Com #1H
Sales Ticket Number 5403011

Company Rep Travis Ingram
Field Peterson
BOT Service Rep Joseph Haynes



Date 3/29/2013

District Location Odessa, Texas, USA

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	3,057.00	9,960	6,230
Top Liner	4.500	11.60	55000	4.000	3.875	LT&C	0.01554	4,697.15	5,230	4,680
Bott Liner										
TVD	2,653.00		KOP		2,255.00		Open Hole	6.125	Casing Vol. (bbl)	108.0
Carry Fluid Weight (ppg)			8.4		Propant Content (ppa)				Max Drill Out Size	3.625

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ (BBL)
15	H809870069	3.000 EX Frac Sleeve	4111.20	3.90	5.750		2.900	1524		200
		2 Joints of 4-1/2-11.6 LTC Casing	4115.10	84.93	4.500	3.920				
	H409360008	Baker Open Hole Packer	4200.03	3.89	5.820	3.875		2154		
14		2 Joints of 4-1/2-11.6 LTC Casing	4203.92	85.28	4.500	3.920				
	H809870068	2.875 EX Frac sleeve	4289.20	3.90	5.750		2.775	1524		203
		4 Joints of 4-1/2-11.6 LTC Casing	4293.10	170.15	4.500	3.920				
	H409360008	Baker Open Hole Packer	4463.25	3.89	5.820	3.875		2154		
		8 Joints of 4-1/2-11.6 LTC Casing	4467.14	340.59	4.500	3.920				
	H409360008	Baker Open Hole Packer	4807.73	3.89	5.750			2154		
13		3 Joint of 4-1/2-11.6 LTC Casing	4811.62	127.77	4.500	3.920				
	H809870067	2.750 EX Frac Sleeve	4939.39	3.90	5.820	3.875	2.650	1524		213
		3 Joints of 4-1/2-11.6 LTC Casing	4943.29	127.83	4.500	3.920				
	H409360008	Baker Open Hole Packer	5071.12	3.89	5.750			2154		
		2 Joints of 4-1/2-11.6 LTC Casing	5075.01	85.25	4.500	3.920				
	H809870066	2.625 EX Frac Sleeve	5160.26	3.90	5.820	3.875	2.525	1524		217
12		3 Joints of 4-1/2-11.6 LTC Casing	5164.16	127.81	4.500	3.920				
	H809870065	Baker Open Hole Packer	5291.97	3.89	5.750			2154		
		2 Joints of 4-1/2-11.6 LTC Casing	5295.86	85.26	4.500	3.920				
11	H809870065	2.500 EX Frac Sleeve	5381.12	3.90	5.820	3.875	2.400	1524		220
		3 Joints of 4-1/2-11.6 LTC Casing	5385.02	127.83	4.500	3.920				
	H809870065	Baker Open Hole Packer	5512.85	3.89	5.750			2154		
		2 Joints of 4-1/2-11.6 LTC Casing	5516.74	85.26	4.500	3.920				
	H809870063	2.375 EX Frac Sleeve	5602.00	3.90	5.820	3.875	2.275	1524		223
		2 Joints of 4-1/2-11.6 LTC Casing	5605.90	85.25	4.500	3.920				
10	H809870065	Baker Open Hole Packer	5691.15	3.89	5.750			2154		
		3 Joints of 4-1/2-11.6 LTC Casing	5695.04	127.85	4.500	3.920				
	H809870054	2.250 EX Frac Sleeve	5822.89	3.90	5.820	3.875	2.150	1524		227

Operating Company Mewbourne
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 Sales Ticket Number 5403011
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Company Rep Travis Ingram
 Field Peterson
 BOT Service Rep Joseph Haynes
 District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	3,057.00	9,960	6,230	
Top Liner	4.500	11.60	55000	4.000	3.875	LT&C	0.01554	4,697.15	5,230	4,680	
Bott Liner											
TVD	2,653.00		KOP		2,255.00		Open Hole	6.125	Casing Vol. (bbl)	108.0	
Carry Fluid Weight (ppg)			8.4		Propant Content (ppa)				Max Drill Out Size		3.625

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ (BBL)
8		2 Joints of 4-1/2-11.6 LTC Casing	5826.79	85.22	4.500	3.920				
	H809870065	Baker Open Hole Packer	5912.01	3.89	5.750			2154		
7		3 Joints of 4-1/2-11.6 LTC Casing	5915.90	127.91	4.500	3.920				
	H809870047	2.125 EX Frac Sleeve	6043.81	3.90	5.820	3.875	2.025	1524		230
6		3 Joints of 4-1/2-11.6 LTC Casing	6047.71	127.85	4.500	3.920				
	H809870065	Baker Open Hole Packer	6176.56	3.89	5.750			2154		
5		3 Joints of 4-1/2-11.6 LTC Casing	6179.45	85.22	4.500	3.920				
	H809870042	2.000 EX Frac Sleeve	6264.67	3.90	5.820	3.875	1.900	1524		234
4		2 Joints of 4-1/2-11.6 LTC Casing	6268.57	85.27	4.500	3.920				
	H809870065	Baker Open Hole Packer	6353.84	3.89	5.750			2154		
3		3 Joints of 4-1/2-11.6 LTC Casing	6357.73	127.83	4.500	3.920				
	H809870088	1.875 EX Frac Sleeve	6485.56	3.90	5.820	3.875	1.775	1524		237
2		2 Joints of 4-1/2-11.6 LTC Casing	6489.46	85.25	4.500	3.920				
	H809870065	Baker Open Hole Packer	6574.71	3.89	5.750			2154		
1		3 Joints of 4-1/2-11.6 LTC Casing	6578.60	127.82	4.500	3.920				
	H809870087	1.750 EX Frac Sleeve	6706.42	3.90	5.820	3.875	1.650	1524		240
0		3 Joints of 4-1/2-11.6 LTC Casing	6710.32	127.87	4.500	3.920				
	H809870065	Baker Open Hole Packer	6838.19	3.89	5.750			2154		
-1		2 Joints of 4-1/2-11.6 LTC Casing	6842.08	85.24	4.500	3.920				
	H809870086	1.625 EX Frac Sleeve	6927.32	3.90	5.820	3.875	1.525	1524		244
-2		3 Joints of 4-1/2-11.6 LTC Casing	6931.22	127.87	4.500	3.920				
	H809870065	Baker Open Hole Packer	7059.09	3.89	5.750			2154		
-3		2 Joints of 4-1/2-11.6 LTC Casing	7062.98	85.27	4.500	3.920				
	H809870085	1.500 DBI Frac Sleeve	7148.25	3.90	5.820	3.875	1.400	1524		247
-4		3 Joints of 4-1/2-11.6 LTC Casing	7152.15	127.85	4.500	3.920				
	H809870065	Baker Open Hole Packer	7280.00	3.89	5.750			2154		
-5		2 Joints of 4-1/2-11.6 LTC Casing	7283.89	85.25	4.500	3.920				

Company Rep	Travis Ingram
Field	Peterson
BOT Service Rep	Joseph Haynes
District Location	Odessa, Texas, USA



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Top Liner	4.500	11.60	55000	4.000	3.875	LT&C	0.01554	4,697.15	5,230	4,680
Bott Liner										
TVD		2,653.00	KOP		2,255.00	Open Hole		6.125	Casing Vol. (bbl)	108.0
Carry Fluid Weight (ppg)			8.4	Propant Content (ppa)				Max Drill Out Size		3.625

[illegible]