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Pioneer Natural Res. Pierre Shale

Raton - Sangre de Cristo Unit

Fantasy Island 42-31 Kp H A

Fantasy Island 42-31 Kp H A

ST01 - Lateral

Plan: Fantasy Island 42-31 Kp H A Lateral R1 jkl 15Jan09

PNR Western Div Planning Report

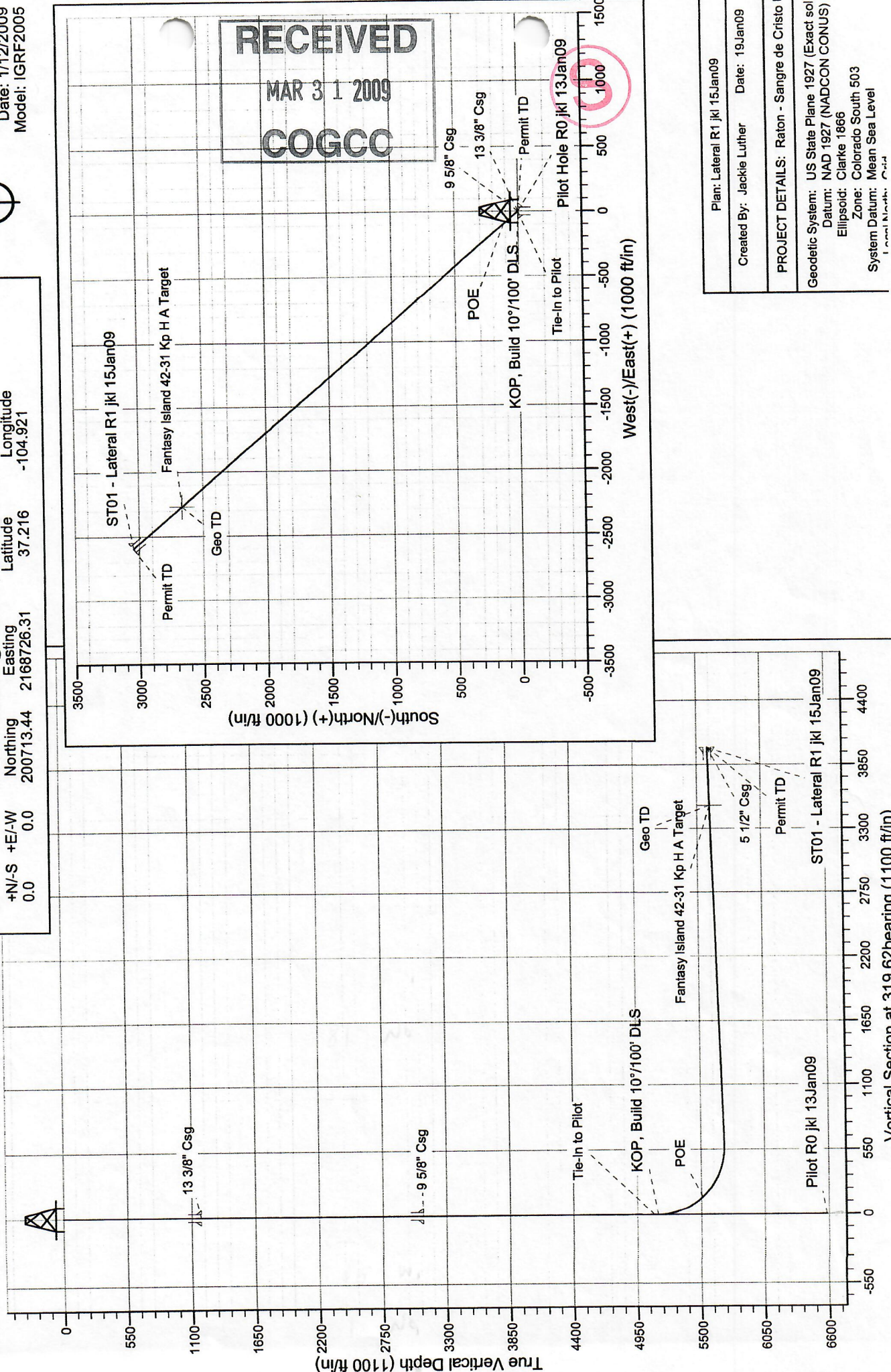
16 January, 2009

Project: Raton - Sangre de Cristo Unit Pioneer Natural Res. Pierre Shale

Site: Fantasy Island 42-31 Kp H A
 Well: Fantasy Island 42-31 Kp H A
 Wellbore: ST01 - Lateral
 Design: Fantasy Island 42-31 Kp H A Lateral R1 jkl 15Jan09

Azimuths to Grid North
 True North: 0.35°
 Magnetic North: 8.57°
 Magnetic Field
 Strength: 51597.8snT
 Dip Angle: 64.43°
 Date: 1/12/2009
 Model: IGRF2005

WELL DETAILS: Fantasy Island 42-31 Kp H A				
GL7811&KB20 @ 7831.0ft (H&P Rig) 7811.0				
+N/-S	+E/-W	Northing	Easting	Longitude
0.0	0.0	200713.44	2168726.31	-104.921
		Latitude		
		37.216		



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Plan: Lateral R1 jkl 15Jan09	Created By: Jackie Luther	Date: 19Jan09
PROJECT DETAILS: Raton - Sangre de Cristo U		
Geodetic System: US State Plane 1927 (Exact solut		
Datum: NAD 1927 (NADCON CONUS)		
Ellipsoid: Clarke 1866		
Zone: Colorado South 503		
System Datum: Mean Sea Level		

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Company:	Pioneer Natural Res. Pierre Shale	Local Co-ordinate Reference:	Well Fantasy Island 42-31 Kp H A
Project:	Raton - Sangre de Cristo Unit	TVD Reference:	GL7811&KB20 @ 7831.0ft (H&P Rig)
Site:	Fantasy Island 42-31 Kp H A	MD Reference:	GL7811&KB20 @ 7831.0ft (H&P Rig)
Well:	Fantasy Island 42-31 Kp H A	North Reference:	Grid
Wellbore:	ST01 - Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Fantasy Island 42-31 Kp H A Lateral R1 jkl 15Jan09	Database:	EDMPROD

Project	Raton - Sangre de Cristo Unit, NW Raton Basin		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Colorado South 503		

Site	Fantasy Island 42-31 Kp H A			
Site Position:		Northing:	200,713.44 ft	Latitude: 37.216
From:	Lat/Long	Easting:	2,168,726.31 ft	Longitude: -104.921
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence: 0.36 ?

Well	Fantasy Island 42-31 Kp H A, SE/4NE/4 Sec. 31 T32S R67W			
Well Position	+N/-S	0.0 ft	Northing:	200,713.44 ft
	+E/-W	0.0 ft	Easting:	2,168,726.31 ft
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft
			Ground Level:	7,811.0 ft

Wellbore	ST01 - Lateral				
Magnetics	Model Name	Sample Date	Declination (?)	Dip Angle (?)	Field Strength (nT)
	IGRF2005	1/12/2009	8.92	64.43	51,598

Design	Fantasy Island 42-31 Kp H A Lateral R1 jkl 15Jan09			
Audit Notes:				
Version:	00	Phase:	PROTOTYPE	Tie On Depth: 5,100.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(bearing)
	0.0	0.0	0.0	319.62

Survey Tool Program	Date	1/16/2009		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	5,100.0	Fantasy Island 42-31 Kp H A Pilot R0 jkl 1		
5,100.0	9,458.0	Fantasy Island 42-31 Kp H A Lateral R1 jk		

Planned Survey								
MD (ft)	Inc (?)	Azi (bearing)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (?/100ft)	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	
? Tie-In to Pilot								
5,129.7	0.00	0.00	5,129.7	0.0	0.0	0.0	0.00	
? KOP								
5,550.9	42.12	319.62	5,514.0	148.0	112.7	-95.9	10.00	
POE - Kp1								
6,047.8	91.81	319.62	5,702.4	591.1	450.2	-382.9	10.00	
8,957.9	91.81	319.62	5,610.5	3,499.7	2,665.9	-2,267.4	0.00	
Geo TD - Fantasy Island 42-31 Kp H A Target								
9,458.0	91.81	319.62	5,594.7	3,999.6	3,046.6	-2,591.2	0.00	
Permit TD - 5 1/2" Csg								

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Site:	Fantasy Island 42-31 Kp H A	MD Reference:	GL7811&KB20 @ 7831.0ft (H&P Rig)
Well:	Fantasy Island 42-31 Kp H A	North Reference:	Grid
Wellbore:	ST01 - Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Fantasy Island 42-31 Kp H A Lateral R1 jkl 15Jan09	Database:	EDMPROD

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(?)	(bearing)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
Fantasy Island 42-31 Kp	0.00	0.00	5,611.0	2,665.9	-2,267.4	203,379.33	2,166,458.89	37.224	-104.928
- plan hits target									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(ft)	(ft)		(")	(")	
1,180.0	1,180.0	13 3/8" Csg	13-3/8	17-1/2	
3,098.0	3,098.0	9 5/8" Csg	9-5/8	12-1/4	
9,458.0	5,594.7	5 1/2" Csg	5-1/2	6-1/4	

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(?)	(bearing)
5,550.9	5,514.0	Kp1	SHALE	0.00	

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)		
5,100.0	5,100.0	0.0	0.0	Tie-In to Pilot	
5,129.7	5,129.7	0.0	0.0	KOP	
5,550.9	5,514.0	112.7	-95.9	POE	
8,957.9	5,610.5	2,665.9	-2,267.4	Geo TD	
9,458.0	5,594.7	3,046.6	-2,591.2	Permit TD	

Checked By: _____ Approved By: _____ Date: _____

2566 West
3081 North