

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

MAR 10 2010

1a. Type of Work DRILL	5. Lease Number SF-079266 of 1700 Management Unit Reporting Number Bureau Field Office	
1b. Type of Well GAS	6. If Indian, All. or Tribe RCVD APR 20 '10	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name OIL CONS. DIV. DIST. 3	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Vaughn 9. Well Number 30P	
4. Location of Well Surface: Unit L(NWSW), 2685' FSL & 1070' FWL Bottomhole: Unit F(SENW), 1485' FNL & 1820' FWL Surface: Latitude: 36.457481° N (NAD83) Longitude: 107.478555° W Bottomhole: Latitude: 36.460874° N (NAD83) Longitude: 107.476076° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 28, T26N, R6W API # 30-039- 30953	
14. Distance in Miles from Nearest Town 46 miles / Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1070'	17. Acres Assigned to Well 320.00 W/2 - MV/DK	
16. Acres in Lease 2,560.00		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 421' from Vaughn 30		
19. Proposed Depth 7195'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6436' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date <u>3/10/2010</u>	

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

Example Master Plan Type 3

Bond Numbers NMB-000015 and NMB-000089

APR 23 2010

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

Hold C104

for Directional Survey and "As Drilled" plat

NMOCD

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

NOTIFY AZTEC OCD 24-HRS.
PRIOR TO CASING & CEMENT

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

DISTRICT I
1626 N. French Dr., Hobbs, N.M. 88249

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
MAR 09 2010 State Lease - 4 Copies
Fee Lease - 3 Copies

Bureau of Land Management
Farmingington Field Office
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039- 30953		2 Pool Code 71599 / 72319		3 Pool Name BASIN DAKOTA/BLANCO MESAVERDE	
4 Property Code 7623		5 Property Name VAUGHN			6 Well Number 30P
7 OGRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			9 Elevation 6436'

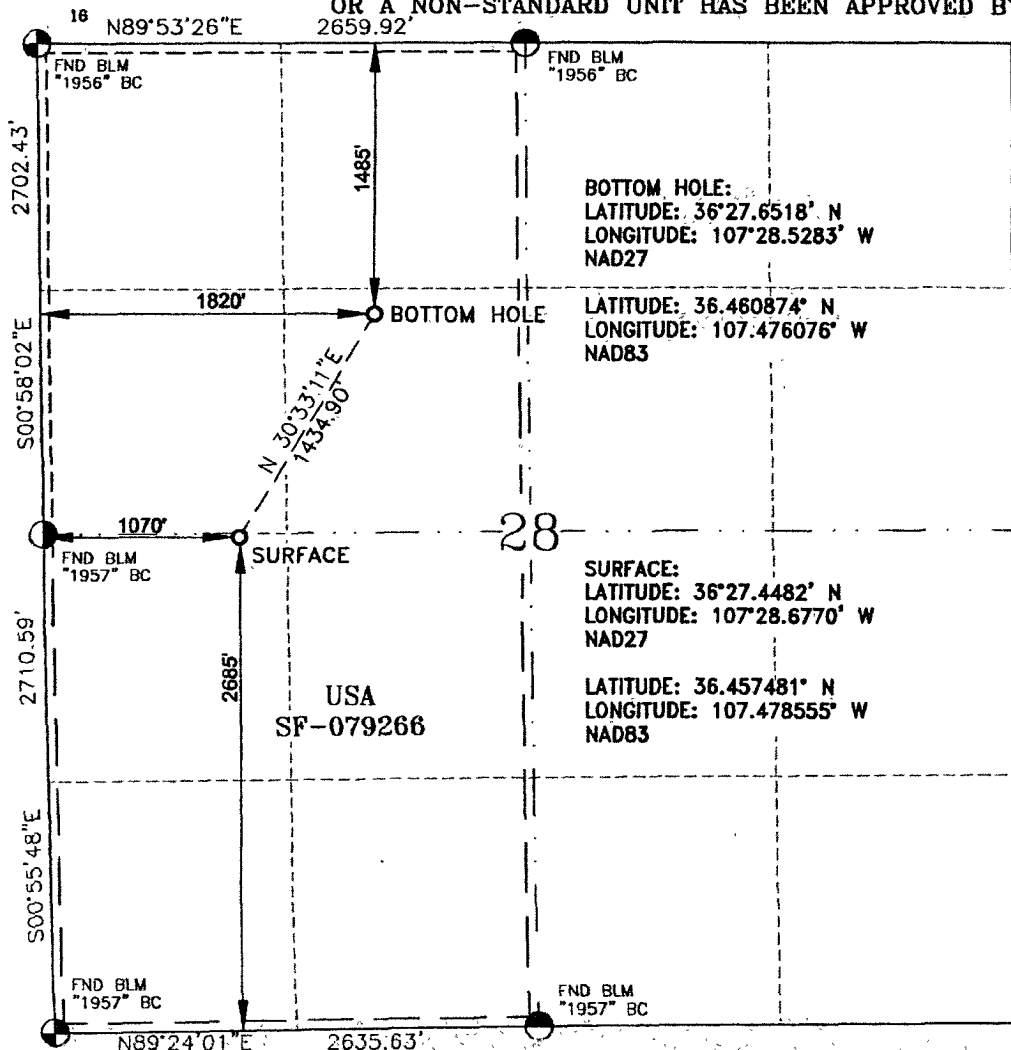
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	28	26-N	6-W		2685	SOUTH	1070	WEST	RIO ARRIBA

11 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
F	28	26-N	6-W		1485	NORTH	1820	WEST	RIO ARRIBA
12 Dedicated Acres DK 320.00 ACRES W/2 MV 320.00 ACRES W/2			13 Joint or Infill		14 Consolidation Code		15 Order No.		

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



17 OPERATOR CERTIFICATION

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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

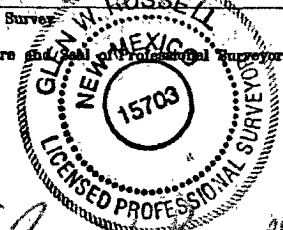
Crystal Tafoya 4/28/09
Signature

Crystal Tafoya 4-28-09
Printed Name

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was 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.

4-23-09
Date of Survey
Signature of Professional Surveyor



Glen W. Russell
Certificate Number 15703

PROJECT PROPOSAL - New Drill / Sidetrack

VAUGHN 30P
DEVELOPMENT

Lease:		AFE #: WAN.CDR.8246				AFE \$: 1,631,239.16	
Field Name: SAN JUAN		Rig:		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.457470	Longitude: -107.477951	X:	Y:	Section: 28		Range: 006W	
Footage X: 1070 FWL		Footage Y: 2685 FSL		Elevation: 6436 (FT)	Township: 026N		
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.460863	Longitude: -107.475472	X:	Y:	Section: 28		Range: 006W	
Footage X: 1820 FWL		Footage Y: 1485 FNL		Elevation: (FT)	Township: 026N		
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6451 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6251	☐			12-1/4" hole. 9-5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface	
OJO ALAMO	1993	4458	☐				
KIRTLAND	2147	4304	☐				
FRUITLAND	2238	4213	☐			Possible Gas	
PICTURED CLIFFS	2643	3808	☐				
LEWIS	2756	3695	☐				
HUERFANITO BENTONITE	3078	3373	☐				
CHACRA	3535	2916	☐				
UPPER CLIFF HOUSE	4270	2181	☐			Est. Top Perf - 4271 (2179)	
MASSIVE CLIFF HOUSE	4335	2116	☐				
MENELEE	4380	2071	☐				
Intermediate Casing	4530	1921	☐			8-3/4" hole. 7", 23 ppf, J-55, LTC casing. Cement with 1083 cuft. Circulate cement to surface.	
POINT LOOKOUT	4909	1542	☐	531		GAS	
MANCOS	5243	1208	☐				
UPPER GALLUP	5989	462	☐				
GREENHORN	6845	-394	☐				
GRANEROS	6902	-451	☐				
TWO WELLS	6957	-506	☐	2782		Gas	
PAGUATE	7005	-554	☐				
UPPER CUBERO	7043	-592	☐				
LOWER CUBERO	7076	-625	☐			Est. Btm Perf - 7174 (-724) based on offset wells	
OAK CANYON	7106	-655	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

VAUGHN 30P

DEVELOPMENT

ENCINAL	7145	-694	☐	TD - 50' below T/ENCN
Total Depth	7195	-744	☐	6-1/4" Hole. 4-1/2", 11.6 ppf, J-55/L-80, LTC casing. Cement with 367 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	Vaughn 11	26N 6W 28 NE SW NW
Production	Vaughn 30E	26N 6W 28 SE NW NW
Production	Vaughn 30	26N 6W 28 NW NE SW

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Mudlog from ~100' above the Greenhorn to TD. Mudloggers will call final TD. Est bottom perf ~20' above the est TD

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Vaughn #30P
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6451.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6451.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Vaughn #30P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,266.9	3,078.0	Huerfano Bentonite		0.00		
2,913.7	2,756.0	Lewis		0.00		
5,186.4	4,909.0	Point Lookout		0.00		
7,179.4	6,902.0	Graneros		0.00		
6,266.4	5,989.0	Upper Gallup		0.00		
4,612.1	4,335.0	Mass. Cliffhouse		0.00		
3,768.1	3,535.0	Chacra		0.00		
5,520.4	5,243.0	Mancos		0.00		
2,345.6	2,238.0	Fruitland		0.00		
2,076.9	1,993.0	Ojo		0.00		
2,245.8	2,147.0	Kirtland		0.00		
7,122.4	6,845.0	Greenhorn		0.00		
4,657.3	4,380.0	Menefee		0.00		
7,234.4	6,957.0	Two Wells		0.00		
4,546.6	4,270.0	Upper Cliffhouse		0.00		
2,789.8	2,643.0	Pictured Cliffs		0.00		
7,320.4	7,043.0	Upper cubero		0.00		
7,422.4	7,145.0	Encinal		0.00		
7,353.4	7,076.0	Lower Cubero		0.00		
7,282.4	7,005.0	Paguate		0.00		
7,383.4	7,106.0	Oak Canyon		0.00		

REFERENCE INFORMATION

RKB @ 6451.0ft (Original Well Elev)
Ground Elevation 6436.0
Reference Lat: 36° 27' 26.892 N
Reference Long: 107° 28' 40.620 W

Project: San Juan Basin - New Mexico Wells
Site: Other Named Wells
Well: Vaughn #30P
Wellbore: Principal Wellbore
Design: Plan #1

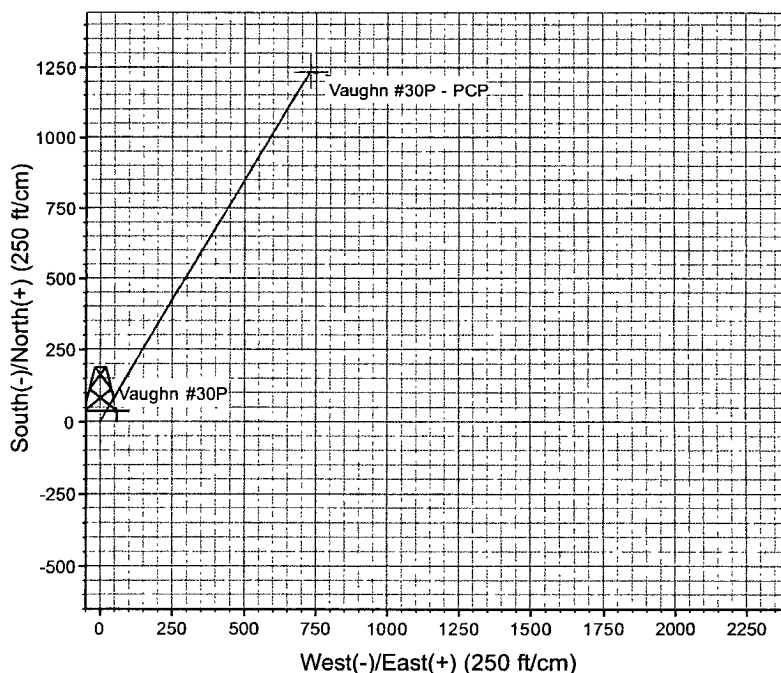
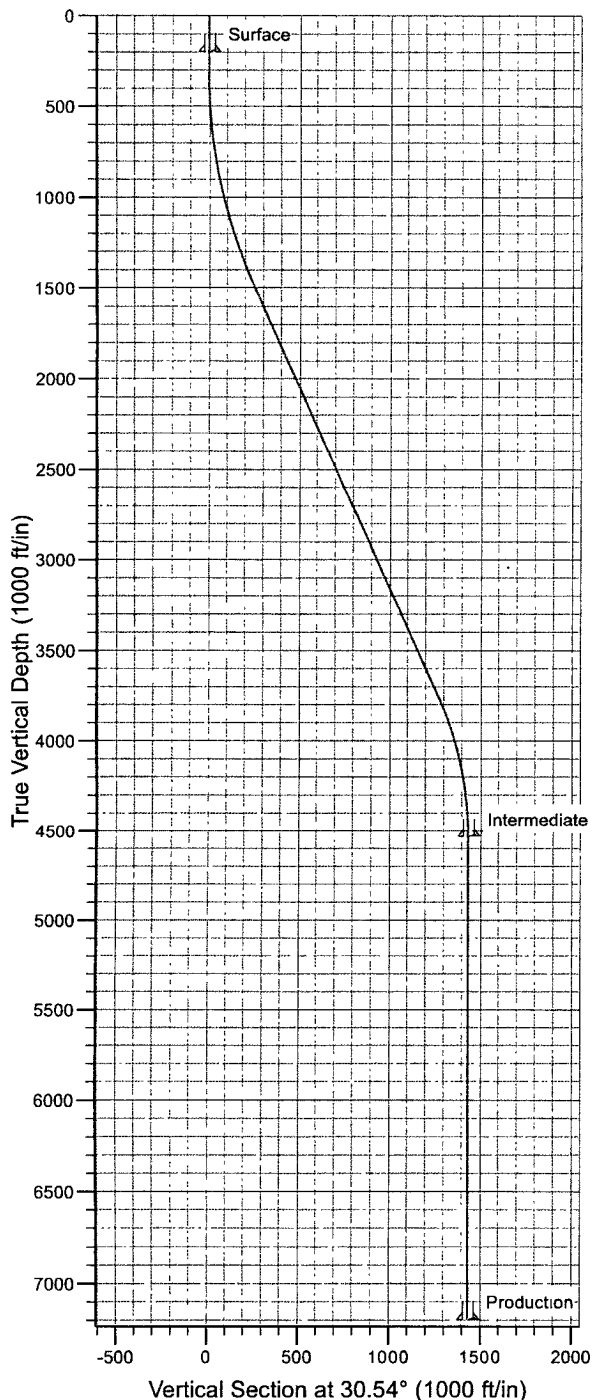
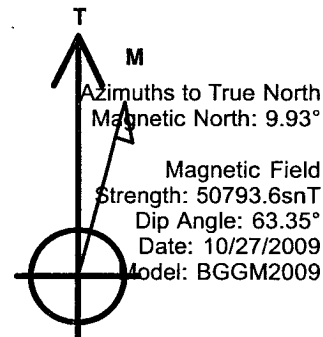
ConocoPhillips

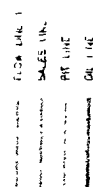
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1532.5	24.25	30.54	1496.6	217.7	128.4	2.00	30.54	252.8	
4	3999.1	24.25	30.54	3745.6	1090.2	643.2	0.00	0.00	1265.8	
5	4807.4	0.00	0.00	4530.0	1235.4	728.8	3.00	180.00	1434.4	Vaughn #30P - ICP
6	7472.4	0.00	0.00	7195.0	1235.4	728.8	0.00	0.00	1434.4	Vaughn #30P - PCP

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1993.0	2076.9	Ojo
2147.0	2245.8	Kirtland
2238.0	2345.6	Fruitland
2643.0	2789.8	Pictured Cliffs
2756.0	2913.7	Lewis
3078.0	3266.9	Huerfano Bentonite
3535.0	3768.1	Chacra
4270.0	4546.6	Upper Cliffhouse
4335.0	4612.1	Mass. Cliffhouse
4380.0	4657.3	Menefee
4909.0	5186.4	Point Lookout
5243.0	5520.4	Mancos
5989.0	6266.4	Upper Gallup
6845.0	7122.4	Greenhorn
6902.0	7179.4	Graneros
6957.0	7234.4	Two Wells
7005.0	7282.4	Paguate
7043.0	7320.4	Upper cubero
7076.0	7353.4	Lower Cubero
7106.0	7383.4	Oak Canyon
7145.0	7422.4	Encinal





1- 2- 3- 4- 5- 6- 7- 8- 9- 10- 11- 12- 13- 14- 15- 16- 17- 18- 19- 20- 21- 22- 23- 24- 25- 26- 27- 28- 29- 30- 31- 32- 33- 34- 35- 36- 37- 38- 39- 40- 41- 42- 43- 44- 45- 46- 47- 48- 49- 50- 51- 52- 53- 54- 55- 56- 57- 58- 59- 60- 61- 62- 63- 64- 65- 66- 67- 68- 69- 70- 71- 72- 73- 74- 75- 76- 77- 78- 79- 80- 81- 82- 83- 84- 85- 86- 87- 88- 89- 90- 91- 92- 93- 94- 95- 96- 97- 98- 99- 100- 101- 102- 103- 104- 105- 106- 107- 108- 109- 110- 111- 112- 113- 114- 115- 116- 117- 118- 119- 120- 121- 122- 123- 124- 125- 126- 127- 128- 129- 130- 131- 132- 133- 134- 135- 136- 137- 138- 139- 140- 141- 142- 143- 144- 145- 146- 147- 148- 149- 150- 151- 152- 153- 154- 155- 156- 157- 158- 159- 160- 161- 162- 163- 164- 165- 166- 167- 168- 169- 170- 171- 172- 173- 174- 175- 176- 177- 178- 179- 180- 181- 182- 183- 184- 185- 186- 187- 188- 189- 190- 191- 192- 193- 194- 195- 196- 197- 198- 199- 200- 201- 202- 203- 204- 205- 206- 207- 208- 209- 210- 211- 212- 213- 214- 215- 216- 217- 218- 219- 220- 221- 222- 223- 224- 225- 226- 227- 228- 229- 230- 231- 232- 233- 234- 235- 236- 237- 238- 239- 240- 241- 242- 243- 244- 245- 246- 247- 248- 249- 250- 251- 252- 253- 254- 255- 256- 257- 258- 259- 260- 261- 262- 263- 264- 265- 266- 267- 268- 269- 270- 271- 272- 273- 274- 275- 276- 277- 278- 279- 280- 281- 282- 283- 284- 285- 286- 287- 288- 289- 290- 291- 292- 293- 294- 295- 296- 297- 298- 299- 300- 301- 302- 303- 304- 305- 306- 307- 308- 309- 310- 311- 312- 313- 314- 315- 316- 317- 318- 319- 320- 321- 322- 323- 324- 325- 326- 327- 328- 329- 330- 331- 332- 333- 334- 335- 336- 337- 338- 339- 340- 341- 342- 343- 344- 345- 346- 347- 348- 349- 350- 351- 352- 353- 354- 355- 356- 357- 358- 359- 360- 361- 362- 363- 364- 365- 366- 367- 368- 369- 370- 371- 372- 373- 374- 375- 376- 377- 378- 379- 380- 381- 382- 383- 384- 385- 386- 387- 388- 389- 390- 391- 392- 393- 394- 395- 396- 397- 398- 399- 400- 401- 402- 403- 404- 405- 406- 407- 408- 409- 410- 411- 412- 413- 414- 415- 416- 417- 418- 419- 420- 421- 422- 423- 424- 425- 426- 427- 428- 429- 430- 431- 432- 433- 434- 435- 436- 437- 438- 439- 440- 441- 442- 443- 444- 445- 446- 447- 448- 449- 450- 451- 452- 453- 454- 455- 456- 457- 458- 459- 460- 461- 462- 463- 464- 465- 466- 467- 468- 469- 470- 471- 472- 473- 474- 475- 476- 477- 478- 479- 480- 481- 482- 483- 484- 485- 486- 487- 488- 489- 490- 491- 492- 493- 494- 495- 496- 497- 498- 499- 500- 501- 502- 503- 504- 505- 506- 507- 508- 509- 510- 511- 512- 513- 514- 515- 516- 517- 518- 519- 520- 521- 522- 523- 524- 525- 526- 527- 528- 529- 530- 531- 532- 533- 534- 535- 536- 537- 538- 539- 540- 541- 542- 543- 544- 545- 546- 547- 548- 549- 550- 551- 552- 553- 554- 555- 556- 557- 558- 559- 560- 561- 562- 563- 564- 565- 566- 567- 568- 569- 570- 571- 572- 573- 574- 575- 576- 577- 578- 579- 580- 581- 582- 583- 584- 585- 586- 587- 588- 589- 590- 591- 592- 593- 594- 595- 596- 597- 598- 599- 600- 601- 602- 603- 604- 605- 606- 607- 608- 609- 610- 611- 612- 613- 614- 615- 616- 617- 618- 619- 620- 621- 622- 623- 624- 625- 626- 627- 628- 629- 630- 631- 632- 633- 634- 635- 636- 637- 638- 639- 640- 641- 642- 643- 644- 645- 646- 647- 648- 649- 650- 651- 652- 653- 654- 655- 656- 657- 658- 659- 660- 661- 662- 663- 664- 665- 666- 667- 668- 669- 670- 671- 672- 673- 674- 675- 676- 677- 678- 679- 680- 681- 682- 683- 684- 685- 686- 687- 688- 689- 690- 691- 692- 693- 694- 695- 696- 697- 698- 699- 700- 701- 702- 703- 704- 705- 706- 707- 708- 709- 710- 711- 712- 713- 714- 715- 716- 717- 718- 719- 720- 721- 722- 723- 724- 725- 726- 727- 728- 729- 730- 731- 732- 733- 734- 735- 736- 737- 738- 739- 740- 741- 742- 743- 744- 745- 746- 747- 748- 749- 750- 751- 752- 753- 754- 755- 756- 757- 758- 759- 760- 761- 762- 763- 764- 765- 766- 767- 768- 769- 770- 771- 772- 773- 774- 775- 776- 777- 778- 779- 780- 781- 782- 783- 784- 785- 786- 787- 788- 789- 790- 791- 792- 793- 794- 795- 796- 797- 798- 799- 800- 801- 802- 803- 804- 805- 806- 807- 808- 809- 810- 811- 812- 813- 814- 815- 816- 817- 818- 819- 820- 821- 822- 823- 824- 825- 826- 827- 828- 829- 830- 831- 832- 833- 834- 835- 836- 837- 838- 839- 840- 84

[illegible]

Directions from the Intersection of
Hwy 550 & Hwy 64 in Bloomfield, NM

To:

Burlington Resources Oil & Gas Company LP

VAUGHN 30P

2685' FSL & 1070' FWL,

Section 28, T26N, R6W, N.M.P.M., Rio Arriba County,

New Mexico

Latitude: 36° 27' 26.930" N

Longitude: 107° 28' 42.797" W

NAD 1983

Take Hwy 550 (south) for 1.0 miles to
CR 4900 (South Sullivan rd.)
turn left (easterly) on CR 4900 15.0 miles to Five Mile Bridge
stay right @ intersection (southeasterly) for 3.2 miles,
across 10 mile bridge, continue (southeasterly) 18.2 miles,
to Old Largo Canyon School, turn right (southeasterly) 2.5 mile
along Canyon Largo Wash,
turn left (easterly) across Largo Wash 2.3 miles,
turn left (northerly) across Tapico Wash for 0.5 miles,
continue (westerly) 0.6 miles,
to beginning of new access on left side of road and
continues for 66.54' to the newly staked location.