Form 3160-4 (October 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR SUBMIT IN DUPLICATE!

FOR APPROVED OCT 0 7 2008 OMB NO. 1004-0137

(See other In-structions on reverse side)

BUREAU OF LAND MANAGEMENT							5. LEASE DESIGNATION AND SERIAL NO			
TOTAL OF MOUNTAINERS								USA SF-079065		
VELL COMPL	ETION OR R	6 IF	6 IF INDIAN, ALLOTTEE OR TRIBE NAME							
a TYPE OF WELL:	OIL WELL	GAS X	DRY Other			7				
b. TYPE OF COMPLETION:							7. UNIT AGREEMENT NAME			
O. TYPE OF COMPLETION: NEW X WORK DEEP-EN PLUG DIFF RESVR Other							8. FARM OR LEASE NAME, WELL NO			
							Hagood 19			
2. NAME OF OPERATOR								9. API WELL NO.		
	ON RESOURCES OF	1	30-045-34688 (2)(2) 10 FIELD AND POOL, OR WILDCAT							
ADDRESS AND TEL	LEPHONE NO. 89, Farmington, NM	10 6	Basin Dakota							
	LL (Report location clear	11. S	11. SEC., T., R , M , OR BLOCK AND SURVEY							
At surface U	nit O (SWSE) 660' F		OR AREA							
		0				- 1	Sec.19 T29N R13W, NMPM			
At top prod. interval	reported below	Same as above				1		RCVD OCT 9 'O		
At total depth	Same as above							OIL CONS. DI DIST. 3		
		14.	PERMIT NO.	DATE ISSUE	D	- 1	OUNTY OR PARISH	13. STATE		
							San Juan	New Mexico		
. DATE SPUDDED 16 06/25/08	5. DATE T.D. REACHED 07/02/08	17. DATE CON 09/25	MPL (Ready to prod)	•	18. ELEVATIONS (I		BR, ETC.)*	19. ELEV. CASINGHEAD		
. TOTAL DEPTH, MD &T		ACK T.D., MD &TVD	22. IF MULTIPLE O	OMPL.,	23 INTERVALS	ROTAR	5457' Y TOOLS	CABLE TOOLS		
00001		60141	HOWA	MANY*	DRILLED BY	l		1		
6038' PRODUCTION INTERV	VAL (S) OF THIS COMPLET	6011' TION-TOP, BOTTOM, N	NAME (MD AND TVD)	, -		yes	25 WAS DIREC	TIONAL		
Basin Dakota	5740' - 5997'						SURVEY M	ADE No		
I, JYPE ELECTRIC AND	OTHER LOGS RUN	. 0				27. WA	S WELL CORED			
GR/CCL ,	OTHER LOGS RUN	ensku: Pl	at XP aura	u induct	IGR	27. WA	S WELL CORED	No		
/GR/CCL , P_{ℓ}	at XP Lith D		CASING RECORD ((Aeport all strings	set in well)			No		
GR/CCL , P	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	Report all strings	set in well) ENT, CEMENTING I		A			
/GR/CCL , P_{ℓ}	at XP Lith D		CASING RECORD ((Aeport all strings	set in well) ENT, CEMENTING I SX (686 cf)			No		
GR/CCL; // CASING SIZE/GRADE 8 5/8" 4 1/2"	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80	521' 6027'	HOLE SIZE	TOP OF CEM Surface; 497 surface; 1005	set in well) ENT, CEMENTING I SX (686 cf)	ECORD	67 bbls 80 bbls	NO MOUNT PULLED		
GR/CCL ', A CASING SIZE/GRADE 8 5/8" 4 1/2"	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE	521' 6027'	HOLE SIZE	TOP OF CEM surface; 497 surface; 1005	set in well) ENT, CEMENTING I SX (686 cf) SX (2127 cf) DEPTH	ECORD	A 67 bbls 80 bbls BING RECORU	NO MOUNT PULLED		
GR/CCL , A	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE	DEPTH SET (MD) 521' 6027'	CASING RECORD (HOLE SIZE 12 1/4" 7 7/8"	TOP OF CEM surface; 497 surface; 1005	set in well) ENT, CEMENTING I SX (686 cf) SX (2127 cf) DEPTH	ECORD TU	A 67 bbls 80 bbls BING RECORU	MOUNT PULLED		
GR/CCL , A	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT*	CASING RECORD (HOLE SIZE 12 1/4" 7 7/8"	(Peport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#,J	set in well) ENT, CEMENTING I SX (686 cf) SX (2127 cf) DEPTH	TL SET (MD)	A 67 bbls 80 bbls BING RECORD	MOUNT PULLED D ACKER SET (MD)		
CASING SIZE/GRADE 8 5/8" 4 1/2" SIZE TOP (MD PERFORATION RECO.	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) ORD (Interval, size and num	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT*	CASING RECORD (HOLE SIZE 12 1/4" 7 7/8" SCREEN (MD)	Freport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#,J	Set in well) ENT, CEMENTING I SX (686 cf) I SX (2127 cf) DEPTH J-55 5885' D, SHOT, FRACTI A/10 bbls 15%	TL SET (MD) JRE, CEME HCL Acid	A 67 bbls 80 bbls BING RECORI P.	MOUNT PULLED D ACKER SET (MD) ETC. Frac w/100,000		
GR/CCL , PACASING SIZE/GRADE 8 5/8" 4 1/2" SIZE TOP (MD PERFORATION RECO! 1" @ 2 SPF 97' - 5931' = 32 ii	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) ORD (Interval, size and num	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT*	CASING RECORD (HOLE SIZE 12 1/4" 7 7/8" SCREEN (MD)	Freport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#,J	Set in well) ENT, CEMENTING I SX (686 cf) SX (2127 cf) DEPTH 1-55 5885' D, SHOT, FRACTI A/10 bbls 15% gals 85Q slick	TU SET (MD) JRE, CEME HCL Acidoam N2 fo	A 67 bbls 80 bbls BING RECORIED P. ST. SQUEEZE, & 2% KCL. bam, w/25,09	MOUNT PULLED D ACKER SET (MD) ETC.		
GR/CCL , A CASING SIZE/GRADE 8 5/8" 4 1/2" SIZE TOP (MD PERFORATION RECO 1" @ 2 SPF 97' - 5931' = 32 t 1" @ 1 SPF 65' - 5740' = 35 t	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) DRD (Interval, size and num	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT*	CASING RECORD (HOLE SIZE 12 1/4" 7 7/8" SCREEN (MD)	Freport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#,J	Set in well) ENT, CEMENTING I SX (686 cf) I SX (2127 cf) DEPTH J-55 5885' D, SHOT, FRACTI A/10 bbls 15%	TU SET (MD) JRE, CEME HCL Acidoam N2 fo	A 67 bbls 80 bbls BING RECORIED P. ST. SQUEEZE, & 2% KCL. bam, w/25,09	MOUNT PULLED D ACKER SET (MD) ETC. Frac w/100,000		
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GR/CCL , A CASING SIZE/GRADE 8 5/8" 4 1/2" SIZE TOP (MD PERFORATION RECO 1" @ 2 SPF 97' - 5931' = 32 t 1" @ 1 SPF 65' - 5740' = 35 t 1 holes = 67	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) DRD (Interval, size and num holes holes	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT*	CASING RECORD ((Heport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#, ACII	Set in well) ENT, CEMENTING I SX (686 cf) SX (2127 cf) DEPTH I-55 5885' D, SHOT, FRACTI A/10 bbls 15% gals 85Q slick Sand. Total N2	TU SET (MD) JRE, CEME HCL Acidoam N2 fo	A 67 bbis 80 bbis BING RECORI P. NT SQUEEZE, & 2% KCL. Dam, w/25,09 SCF.	MOUNT PULLED CONTROL OF THE PUBLIC OF THE P		
GR/CCL; GRACCL; GRACCL; GRACCAL;	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) DRD (Interval, size and num holes holes	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT*	CASING RECORD ((Heport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#, ACII	Set in well) ENT, CEMENTING I SX (686 cf) SX (2127 cf) DEPTH I-55 5885' D, SHOT, FRACTI A/10 bbls 15% gals 85Q slick Sand. Total N2	TU SET (MD) JRE, CEME HCL Acidoam N2 fo	A 67 bbis 80 bbis BING RECORI P. NT SQUEEZE, & 2% KCL. aam, w/25,09 SCF.	MOUNT PULLED D ACKER SET (MD) ETC. Frac w/100,000		
CASING SIZE/GRADE 8 5/8" 4 1/2" SIZE TOP (MD PERFORATION RECO 1" @ 2 SPF 97' - 5931' = 32 t 1" @ 1 SPF 65' - 5740' = 35 t tal holes = 67	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) DRD (Interval, size and num holes holes	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT* Depth Set (Flowin) CHOKE SIZE PR	ASING RECORD (HOLE SIZE 12 1/4" 7 7/8" SCREEN (MD) 32. 5740' - 5997' PFIG. gas lift, pumping-si Flowing	(Preport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#, ACII RODUCTION REDUCTION Rize and type of pump.	Set in well) ENT, CEMENTING I SX (686 cf) SX (2127 cf) DEPTH I-55 5885' D, SHOT, FRACTI A/10 bbls 15% gals 85Q slick Sand. Total N2	TU SET (MD) JRE, CEME HCL Acid oam N2 fc = 4,731.9	A 67 bbis 80 bbis BING RECORI P. NT SQUEEZE, & 2% KCL. Dam, w/25,09 SCF.	MOUNT PULLED CONTROL OF THE PUBLIC OF THE P		
GR/CCL; GRACCL; GRACCL; GRACCAL;	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE DIA BOTTOM (MD) DRD (Interval, size and num holes HOURS TESTED	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT* DEPTH SET (MD) SOUTH SET (MD) TON METHOD (Flowing) CHOKE SIZE PR TE:	SCREEN (MD) 32. 5740' - 5997' g. gas lift, pumping-si Flowing IOTH FOR OILI ST PERIOD	(Aleport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#,J ACII RODUCTION Pize and type of pump	Set in well) ENT, CEMENTING (686 cf) SX (2127 cf) DEPTH 1-55 5885' D, SHOT, FRACTI A/10 bbls 15% gals 85Q slick Sand. Total N2	TU SET (MD) URE, CEME HCL Acid oam N2 fc = 4,731.9	A 67 bbls 80 bbls BING RECORI P. ST. SQUEEZE, & 2% KCL. Dam, w/25,09 SCF.	MOUNT PULLED CONTROLLED CONT		
GR/CCL , ASING SIZE/GRADE 8 5/8" 4 1/2" SIZE TOP (MD PERFORATION RECO 4" @ 2 SPF 97' - 5931' = 32 t 4" @ 1 SPF 65' - 5740' = 35 t tal holes = 67 TE FIRST PRODUCTION SI TE OF TEST 09/25/08	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) DRD (Interval, size and num holes holes	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT* TION METHOD (Flowin, ICHOKE SIZE PR TE: 1/2"	ASING RECORD (HOLE SIZE 12 1/4" 7 7/8" SCREEN (MD) 32. 5740' - 5997' PFIG. gas lift, pumping-si Flowing	(Aleport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#,J ACII RODUCTION Pize and type of pump	Set in well) ENT, CEMENTING ISX (686 cf) SX (2127 cf) DEPTH 1-55 5885' D, SHOT, FRACTI A/10 bbls 15% gals 85Q slick Sand. Total N2	TU SET (MD) JRE, CEME HCL Acid oam N2 fc = 4,731.9	A 67 bbls 80 bbls BING RECORI P. ST. SQUEEZE, & 2% KCL. Dam, w/25,09 SCF.	MOUNT PULLED CONTROLLED CONT		
GR/CCL , ASING SIZE/GRADE 8 5/8" 4 1/2" SIZE TOP (MD PERFORATION RECO 1" @ 2 SPF 97' - 5931' = 32 t 1" @ 1 SPF 65' - 5740' = 35 t 1 holes = 67 TE FIRST PRODUCTION SI TE OF TEST 09/25/08 DW. TUBING PRESS	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) DRD (Interval, size and num holes HOURS TESTED 1 CASING PRESSURE	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT' CHOKE SIZE PR 1/2" CALCULATED (24-HOUR RATE)	SCREEN (MD) SCREEN (MD) 32. 5740' - 5997' Prig. gas lift, pumping-si Flowing IOD'N FOR ST PERIOD 3 bo	(Heport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#, ACII RODUCTION Plize and type of pump BBL Oph GAS-MCF	Set in well) ENT, CEMENTING I SX (686 cf) SX (2127 cf) DEPTH 1-55 5885' D, SHOT, FRACTI A/10 bbls 15% gals 85Q slick Sand. Total N2 GAS-MCF WATE	TUSET (MD) JRE, CEME HCL Acid oam N2 fc = 4,731.9 WATI	A 67 bbls 80 bbls BING RECORI P. ST. SQUEEZE, & 2% KCL. Dam, w/25,09 SCF.	MOUNT PULLED D ACKER SET (MD) ETC. Frac w/100,000 12# 20/40 Brady (Producing or shut-in)		
GR/CCL , ASING SIZE/GRADE 8 5/8" 4 1/2" SIZE TOP (MD PERFORATION RECO. I" @ 2 SPF 97' - 5931' = 32 th I" @ 1 SPF 65' - 5740' = 35 th Ital holes = 67 E FIRST PRODUCTION SI E OF TEST 09/25/08 W. TUBING PRESS SI - 1076#	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) DRD (Interval, size and num holes HOURS TESTED 1 CASING PRESSURE SI - 1667#	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT' DEPTH SET (MD) CORD SACKS CEMENT' CHOKE SIZE 1/2" CALCULATED 24-HOUR RATE 72	SCREEN (MD) 32. 5740' - 5997' Flowing OD'N FOR ST PERIOD ADDRESSED AND ADDRESSED ADDRESSED AND ADDRESSED	(Heport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#, ACII RODUCTION RIZE and type of pump. BBL	Set in well) ENT, CEMENTING (686 cf) SX (2127 cf) DEPTH 1-55 5885' D, SHOT, FRACTI A/10 bbls 15% gals 85Q slick Sand. Total N2 GAS-MCF	TUSET (MD) JRE, CEME HCL Acid oam N2 fc = 4,731.9 WATI	A 67 bbls 80 bbls BING RECORI P. WT SQUEEZE, & 2% KCL. sam, w/25,09 SCF.	MOUNT PULLED CONTROLLED CONT		
CASING SIZE/GRADE 8 5/8" 4 1/2" SIZE TOP (MD PERFORATION RECO 1" @ 2 SPF 97' - 5931' = 32 t 1" @ 1 SPF 65' - 5740' = 35 t tal holes = 67 TE FIRST PRODUCTION SI TE OF TEST 09/25/08 W. TUBING PRESS SI - 1076#	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) DRD (Interval, size and num holes HOURS TESTED 1 CASING PRESSURE	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT' DEPTH SET (MD) CORD SACKS CEMENT' CHOKE SIZE 1/2" CALCULATED 24-HOUR RATE 72	SCREEN (MD) SCREEN (MD) 32. 5740' - 5997' Prig. gas lift, pumping-si Flowing IOD'N FOR ST PERIOD 3 bo	(Heport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#, ACII RODUCTION Plize and type of pump BBL Oph GASMCF	Set in well) ENT, CEMENTING I SX (686 cf) SX (2127 cf) DEPTH 1-55 5885' D, SHOT, FRACTI A/10 bbls 15% gals 85Q slick Sand. Total N2 GAS-MCF WATE	TUSET (MD) JRE, CEME HCL Acid oam N2 fc = 4,731.9 WATI	A 67 bbls 80 bbls BING RECORI P. ST. SQUEEZE, & 2% KCL. Dam, w/25,09 SCF.	MOUNT PULLED CONTROLLED CONT		
GR/CCL , AS CASING SIZE/GRADE 8 5/8" 4 1/2" SIZE TOP (MD PERFORATION RECO 4" @ 2 SPF 97' - 5931' = 32 to 10 to	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) DRD (Interval, size and num holes holes PRODUC HOURS TESTED 1 CASING PRESSURE SI - 1667# S (Sold, used for fuel, venter To be sold	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT' DEPTH SET (MD) CORD SACKS CEMENT' CHOKE SIZE 1/2" CALCULATED 24-HOUR RATE 72	SCREEN (MD) SCREEN (MD) 32. 5740' - 5997' Prig. gas lift, pumping-si Flowing IOD'N FOR ST PERIOD 3 bo	(Heport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#, ACII RODUCTION Plize and type of pump BBL Oph GASMCF	Set in well) ENT, CEMENTING I SX (686 cf) SX (2127 cf) DEPTH 1-55 5885' D, SHOT, FRACTI A/10 bbls 15% gals 85Q slick Sand. Total N2 GAS-MCF WATE	TUSET (MD) JRE, CEME HCL Acid oam N2 fc = 4,731.9 WATI	A 67 bbls 80 bbls BING RECORI P. WT SQUEEZE, & 2% KCL. sam, w/25,09 SCF.	MOUNT PULLED CONTROLLED CONT		
GR/CCL; GR/	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) DRD (Interval, size and num noles holes PRODUC HOURS TESTED 1 CASING PRESSURE SI - 1667# S (Sold, used for fuel, venter To be sold ITS DK well.	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT' CHOKE SIZE PR TE: 1/2" CALCULATED C24-HOUR RATE 2d, etc.)	SCREEN (MD) SCREEN (MD) SCREEN (MD) 32. 5740' - 5997' Flowing OD'N FOR OILBBL 2 bopd	(Heport all strings TOP OF CEM Surface; 497 Surface; 1005 30 SIZE 2-3/8",4.70#, ACII RODUCTION RODUCTION RODUCTION ROBE and type of pump. BBL Oph GAS-MCF	Set in well) ENT, CEMENTING (SE	TUSET (MD) JRE, CEME HCL Acid oam N2 fc = 4,731.9 WATI	A 67 bbls 80 bbls BING RECORI P. ST. SQUEEZE, & 2% KCL. Dam, w/25,09 SCF.	MOUNT PULLED D ACKER SET (MD) ETC. Frac w/100,000 2# 20/40 Brady (Producing or shut-in) GAS-OIL RATIO OIL GRAVITY-API (CORR.)		
PERFORATION RECC 4 1/2" 9. SIZE TOP (MD PERFORATION RECC 4" @ 2 SPF 997' - 5931' = 32 t 4" @ 1 SPF 965' - 5740' = 35 t otal holes = 67 3. ITE FIRST PRODUCTION SI ITE OF TEST 09/25/08 OW. TUBING PRESS SI - 1076# 4. DISPOSITION OF GAS IS LIST OF ATTACHMEN IS IS a standalone	WEIGHT, LB./FT. 24#, J-55 11.6#, L-80 LINER RE D) BOTTOM (MD) BOTTOM (MD) CRD (Interval, size and num choles CASING PRESSURE SI - 1667# S (Sold, usad for fuel, venter To be sold ITS DK well. So foregoing and attached in	DEPTH SET (MD) 521' 6027' CORD SACKS CEMENT' CHOKE SIZE PR TE: 1/2" CALCULATED C24-HOUR RATE 2d, etc.)	SCREEN (MD) SCREEN (MD) SCREEN (MD) 32. 5740' - 5997' Flowing OD'N FOR OILBBL 2 bopd	ACIUMAN GAS-MCF TOP OF CEM Surface; 497 surface; 1005 30 SIZE 2-3/8",4.70#, ACIUMAN GAS-MCF 1087 mcfd	Set in well) ENT, CEMENTING (SE	TUSET (MD) JRE, CEME HCL Acid oam N2 fc = 4,731.9 WATI	A 67 bbls 80 bbls BING RECORI P. ST. SQUEEZE, & 2% KCL. Dam, w/25,09 SCF.	MOUNT PULLED CONTROLLED CONT		

PARMINOTON FIELD OFFICE

Fruitland	822′	1136′	Dk gry-gry carb sh, coal, grn silts, light-	Fruitland	1546'
			med gry, tight, fine gr ss.		
Pictured Cliffs	1136′	1283′	Bn-Gry, fine grn, tight ss.	Pic.Cliffs	2135'
Lewis	1283′	1692′	Shale w/siltstone stringers	Lewis	2316′
Huerfanito Bentonite	1692′	2077′	White, waxy chalky bentonite	Huerfanito Bent.	2856′
Chacra ·	2077′	2665′	Gry fn grn silty, glauconitic sd stone	Chacra	3195′
			w/drk gry shale	Mesa Verde	3267′
Mesa Verde	2665′	2753′	Light gry, med-fine gr ss, carb sh	Menefee	3847′
			& coal	Point Lookout	4468′
Menefee	2753′	3614'	Med-dark gry, fine gr ss, carb sh & coal	Mancos	4840′
Point Lookout	3614'	3990'	Med-light gry, very fine gr ss w/frequent	Gallup	5776′
· ·			sh breaks in lower part of formation	Greenhorn	6516′
Mancos	3990′	4828'	Dark gry carb sh.	Graneros	6573′
Gallup	4828′	5635′	Lt gry to brn calc carb micac glauc	Dakota	6635′
•			silts & very fine gr gry ss w/irreg.interbed sh		
La Ventana	XXXX	XXXX	Wt to 1t buff to med grn sl carb bent		
Greenhorn	5635′	5686′	Highly calc gry sh w/thin lmst.		•
Graneros	5686′	5743′	Dk gry shale, fossil & carb w/pyrite incl.	•	
Dakota	5743′	•	Lt to dk gry foss carb sl calc sl silty		
			ss w/pyrite incl thin sh bands clay & shale break	ks	

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